DENOYER-GEPPERT

SHARING THE KNOWLEDGE

Digital Catalogue - Anatomical Models

DGi

DENOYER-GEPPERT

Autographed Anatomy™ Models

100% American made LIFETIME MADE IN USA GUARANTEE Lifetime Guarantee

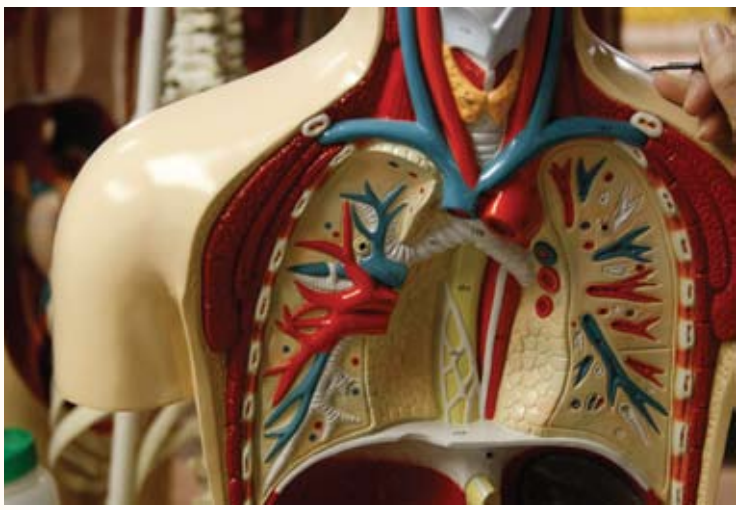
Creating and manufacturing anatomical models for nearly a century, Denoyer-Geppert proudly offers the following benefits with every Autographed Anatomy model purchased . . .

• 100% American made

Manufactured exclusively by Denoyer-Geppert, every step in the production of an Autographed Anatomy model . . .

- molded in non-breakable plastic
- hand-sanded to prepare the model for painting
- hand-painted using specially formulated lacquers that permanently bond to the plastic substrate, and will not chip, rack, peel or transfer from one part to another
- hand-numbered and labeled

. . . takes place here in our Illinois, USA manufacturing facility, under our stringent quality control.



• Pride in Craftsmanship

Utilizing no assembly lines or "cookie cutter" shortcuts, every Autographed Anatomy model is painstakingly handcrafted from premium raw materials. Upon completion, every Autographed Anatomy model is proudly autographed and dated by the skilled artisan who hand painted it — thus "Autographed Anatomy".

• Enduring Quality

Best of all, every Autographed Anatomy model carries our Lifetime Guarantee of satisfaction. We will repair or replace any Autographed Anatomy model which proves defective due to our workmanship, for as long as you own the model. No charge, of course.

• Service and Support

Providing the utmost customer assistance, Autographed Anatomy models are shipped directly from our Illinois production facility to your door. And should the need ever arise, replacement parts, repairs and refurbishing of your Autographed Anatomy models are just a toll-free phone call or e-mail away.

So remember, to get the very best anatomy models, with the very best guarantee, watch for our LIFETIME MADE IN USA GUARANTEE ***symbol and insist on Autographed Anatomy™.***

My fate cries out,
And makes each petty artery in this body
As hardy as the Nemean lion's nerve.
— Hamlet, Prince of Denmark
Act I, Scene IV
William Shakespeare

Multi-Torso

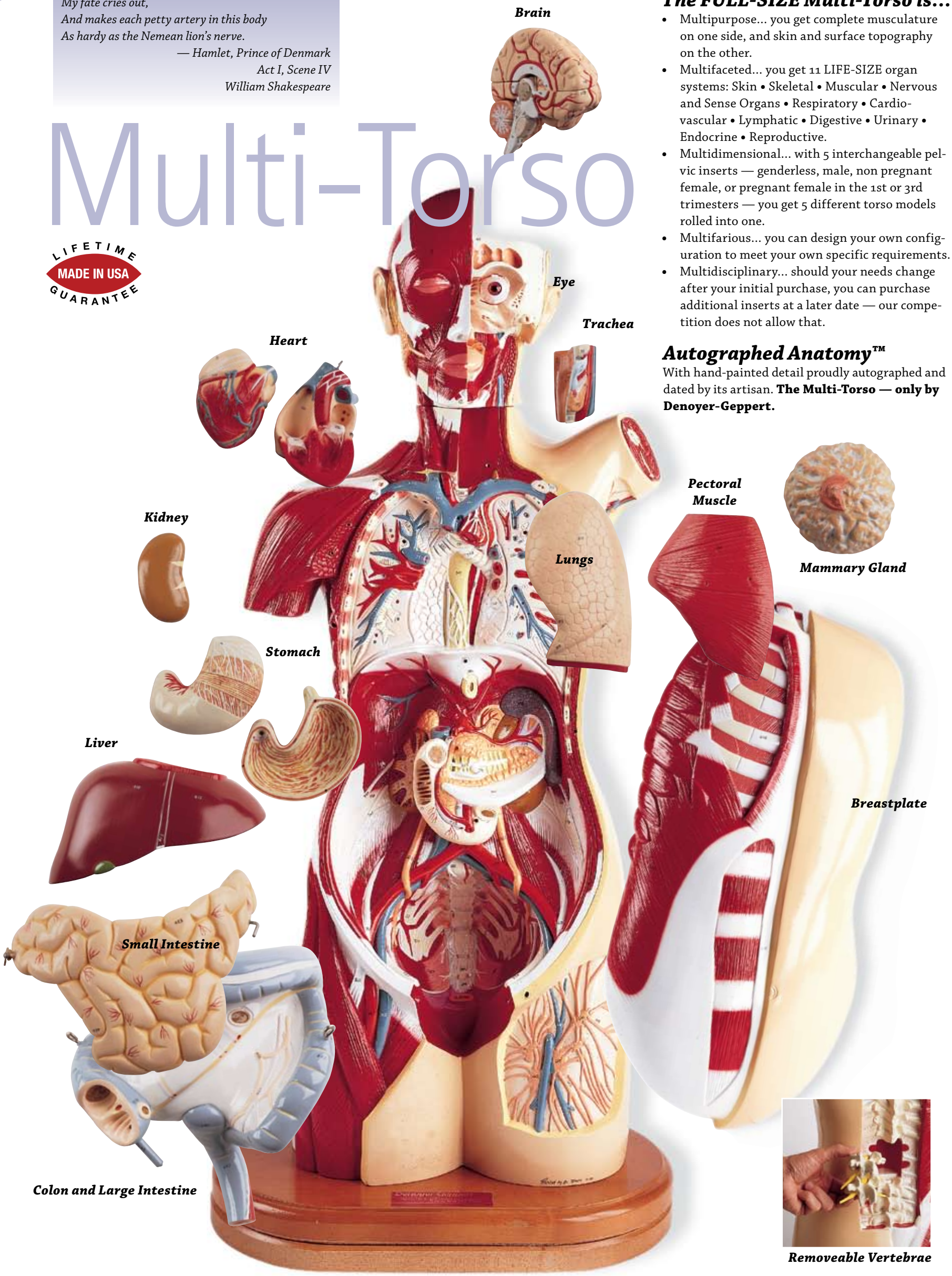
LIFETIME MADE IN USA GUARANTEE

The FULL-SIZE Multi-Torso is…

- Multipurpose… you get complete musculature on one side, and skin and surface topography on the other.
- Multifaceted… you get 11 LIFE-SIZE organ systems: Skin • Skeletal • Muscular • Nervous and Sense Organs • Respiratory • Cardiovascular • Lymphatic • Digestive • Urinary • Endocrine • Reproductive.
- Multidimensional… with 5 interchangeable pelvic inserts — genderless, male, non pregnant female, or pregnant female in the 1st or 3rd trimesters — you get 5 different torso models rolled into one.
- Multifarious… you can design your own configuration to meet your own specific requirements.
- Multidisciplinary… should your needs change after your initial purchase, you can purchase additional inserts at a later date — our competition does not allow that.

Autographed Anatomy™

With hand-painted detail proudly autographed and dated by its artisan. **The Multi-Torso — only by Denoyer-Geppert.**



AUTOGRAPHED ANATOMY™ MODELS

LIFETIME MADE IN USA GUARANTEE

The only models in the world which are *personally autographed and dated* by their hand-crafter!

100% American-made, every step in the production of every Autographed Anatomy model — molding, hand sanding, hand painting, number-coding, labeling and autographing — is carried out here in our U.S. factory.

Quality is unsurpassed. Delivery is from stock. And should you ever have the need, replacement parts, repairs and refurbishing of your Autographed Anatomy model are just a toll-free phone call away.

And every Autographed Anatomy model carries our Lifetime Guarantee of Satisfaction — We will repair or replace any component of any Autographed Anatomy model which proves defective due to our workmanship, for as long as you own the model — no charge, of course.

How to select your Multi-Torso

Because of the interchangeable pelvic inserts, you can configure your Multi-Torso to fit your specific requirements.

You can get your Multi-Torso with the full complement of interchangeable parts *now* ... or you can start with just the sexless version and at a later date, add additional capability as needed, with convenient interchangeable pelvic inserts.

Sexless Configuration

• 39 dissected or dissectible structures
• 23 detachable parts

Includes all the standard Multi-Torso features, and is furnished with two-part sexless insert. Can be converted to male, female or pregnancy at any time with appropriate interchangeable pelvic inserts — available separately.

T12

Male Multi-Torso

• 43 dissected or dissectible structures
• 25 detachable parts

Furnished with the four-part male pelvic insert in addition to all the standard Multi-Torso features. Can be converted to female, sexless, or pregnancy by adding the appropriate interchangeable pelvic inserts which can be purchased separately.

T13

Female Multi-Torso

• 42 dissected or dissectible structures
• 26 removable parts

Includes the four-part female pelvic insert and removable mammary gland plus all the standard Multi-Torso features. Easily converts to male, sexless or pregnancy with the corresponding pelvic inserts.

T14

Male and Female Configuration

• 48 dissected or dissectible structures
• 30 detachable parts

Complete with two interchangeable sets of reproductive organs. Includes the four-part male pelvic insert as well as the four-part female insert plus mammary gland in addition to all the standard Multi-Torso features. Additional inserts can be added at any time.

T15

Male, Female and Sexless Configuration

• 50 dissected of dissectible structures
• 32 detachable parts

This extremely versatile option comes complete with three sets of interchangeable pelvic inserts plus all the standard Multi-Torso features. Includes two-part sexless, four part male, and four-part female inserts, and attachable mammary gland. Additional inserts — available separately — can be added at any time.

T16

Multi-Torsos *with Pregnancy*

LIFETIME GUARANTEE MADE IN USA

3 Three-In-One

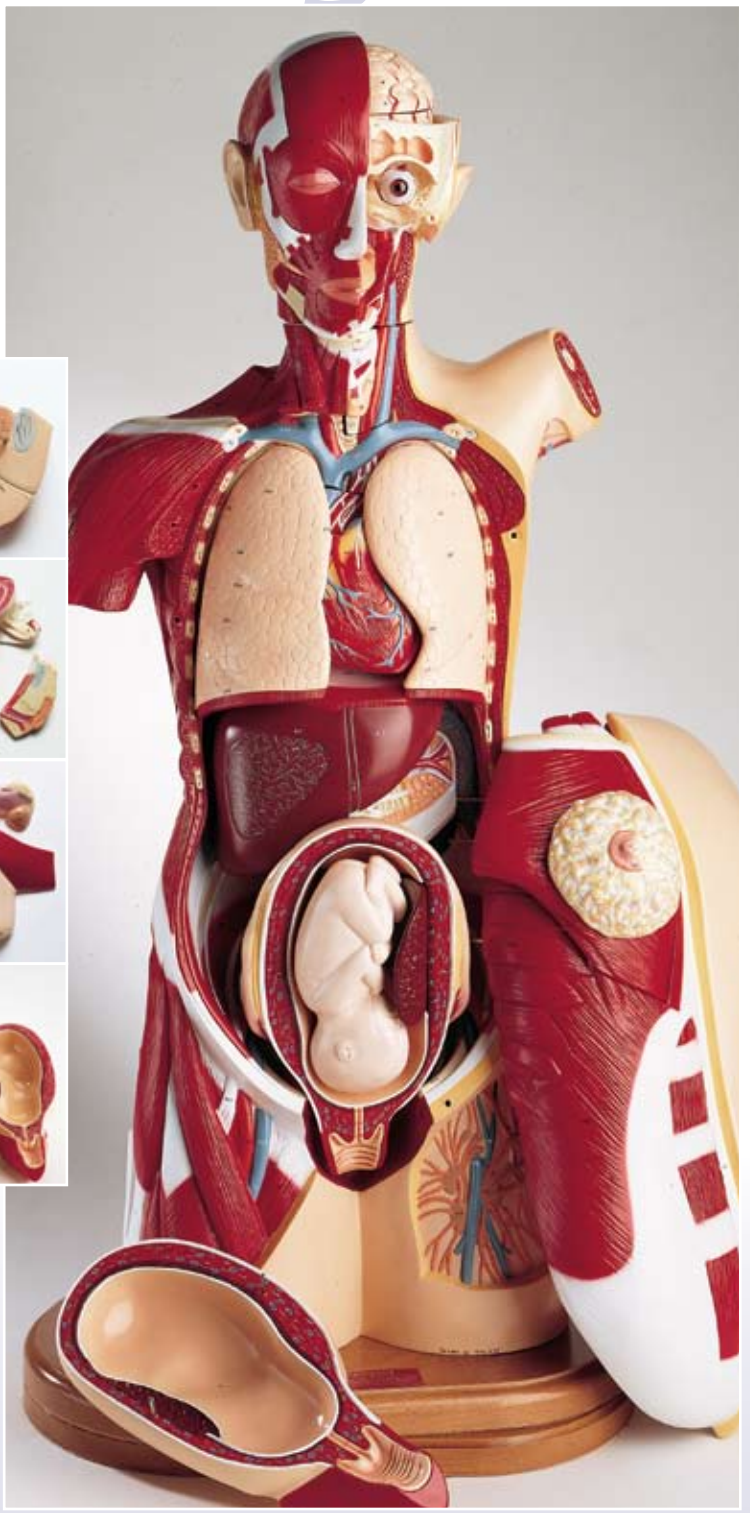
Male, Non-pregnant Female, and 1st Trimester Pregnancy Configuration

- ***55 dissected structures***
- ***33 detachable parts***

Furnished with three sets of interchangeable reproductive inserts, this comprehensive configuration includes:

- Male — 4 parts
- Non-pregnant Female with Mammary Gland — 5 parts
- 1st Trimester Pregnancy — 3 parts

T15E



4 Four-In-One

Male, Female, Genderless and 3rd Trimester Pregnancy Configuration

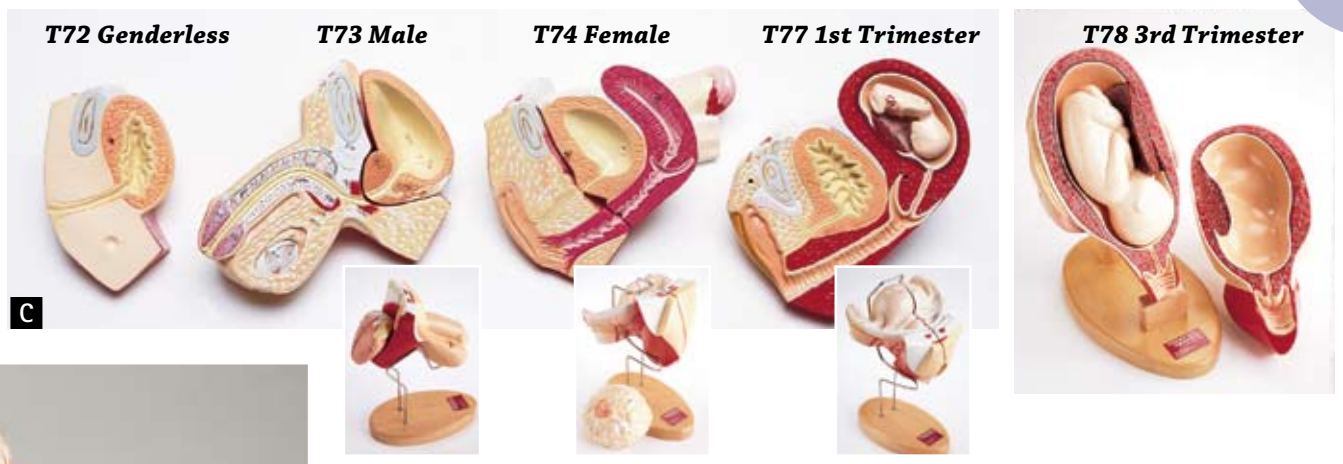
- ***52 dissected or dissectible structures***
- ***36 removable parts***

This is the all-in-one version of the Multi-Torso. It is supplied with four complete sets of interchangeable pelvic inserts which suit it for multiple applications in a wide range of grade levels.

- Genderless — 2 parts
- Male — 4 parts
- Non-pregnant Female with Mammary Gland — 5 parts
- 3rd Trimester Pregnancy — 4 parts

T18

Inserts



5 Five-In-One

Male, Female, Genderless, 1st Trimester Pregnancy, 3rd Trimester Pregnancy Configuration

- ***59 dissected structures***
- ***39 removable parts***

This torso model, the most versatile available anywhere, is supplied with the full complement of five sets of interchangeable pelvic inserts:

- Genderless — 2 parts
- Male — 4 parts
- Non-pregnant Female with Mammary Gland — 5 parts
- 1st Trimester Pregnancy — 3 parts
- 3rd Trimester Pregnancy — 4 parts

T18E

A. Design-Your-Own Multi-Torso Configuration

Supplied and priced without pelvic inserts. To design your own custom Multi-Torso configuration, simply order this option along with your choice of one or more of the pelvic inserts listed below.

T19

B. *Safely Transport Your Torso with our* Heavy-Duty Carrying Bag

Fits ANY full-size torso regardless of brand. Fully padded — competitors' bags offer no protection.

Perfect for storing your torso and for transporting it. This heavy-duty, fully-padded carrying bag with two handles and full-length zipper provides protection and portability for your model. See photo on page 61.

T70

C. Multi-Torso Interchangeable Pelvic Inserts

5-way convertibility for multi-uses ... in multi-subjects ... at multi-levels.

Add features as you need them — next year, or ten years from now! No one but Denoyer-Geppert lets you add features *after* your initial purchase.

Here's everything you need to *convert* from one Multi-Torso configuration to another.

Each pelvic insert stands on its own hardwood display base when not installed in your Multi-Torso.

Genderless Insert — 2 parts

Includes bisected urinary bladder and urethra but without reproductive structures.

T72

Male Insert — 4 parts

Includes bisected male genitalia, urinary bladder and prostate.

T73

Non-Pregnant Female Insert with Mammary Gland — 5 parts

Includes medially sectioned internal reproductive structures, urinary bladder, external genitalia, and mammary gland which attaches to pectoral muscle of torso.

T74

1st Trimester Pregnancy Insert with Removable 12-Week Embryo — 3 parts

Includes bisected reproductive structures with external genitalia, and features a removable 12-week embryo.

T77

3rd Trimester Pregnancy Insert — 4 parts

Includes 2-part uterus and reproductive structures, removable 7-month fetus, and detached placenta.

T78

Autographed Anatomy™ Models

LIFETIME GUARANTEE — MADE IN USA

The only models in the world which are personally autographed and dated by their handcrafter!

100% American-made, every step in the production of every Autographed Anatomy model — molding, hand sanding, hand painting, number-coding, labeling and autographing — is carried out here in our U.S. factory.

Quality is unsurpassed. Delivery is from stock. And should you ever have the need, replacement parts, repairs and refurbishing of your Autographed Anatomy model are just a toll-free phone call away.

And every Autographed Anatomy model carries our Lifetime Guarantee of Satisfaction — We will repair or replace any component of any Autographed Anatomy model which proves defective due to our workmanship, for as long as you own the model — no charge, of course.

A

A. Hands-On Take Apart Torso — *the perfect starter torso*

Molded in unbreakable plastic in full-scale proportion, this simplified reproduction presents ten body systems: Nervous • Circulatory • Respiratory • Digestive • Urinary • Endocrine • Lymphoid • Integumentary • Muscular • and Skeletal. 10 detachable parts and contrasting colors capture student interest and reinforce the learning process through hands-on activity. Complete with a 19 page study guide that not only identifies 122 numbered features but explains their physiological functions as well. Overall dimensions: 35×16×12 inches (89×41×30 cm).

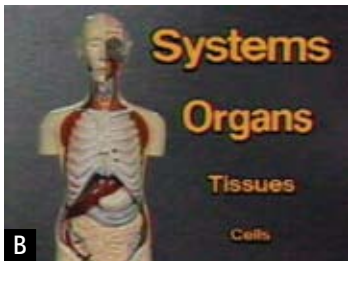
U80

B. An Overview of Human Anatomy: The Head and Torso

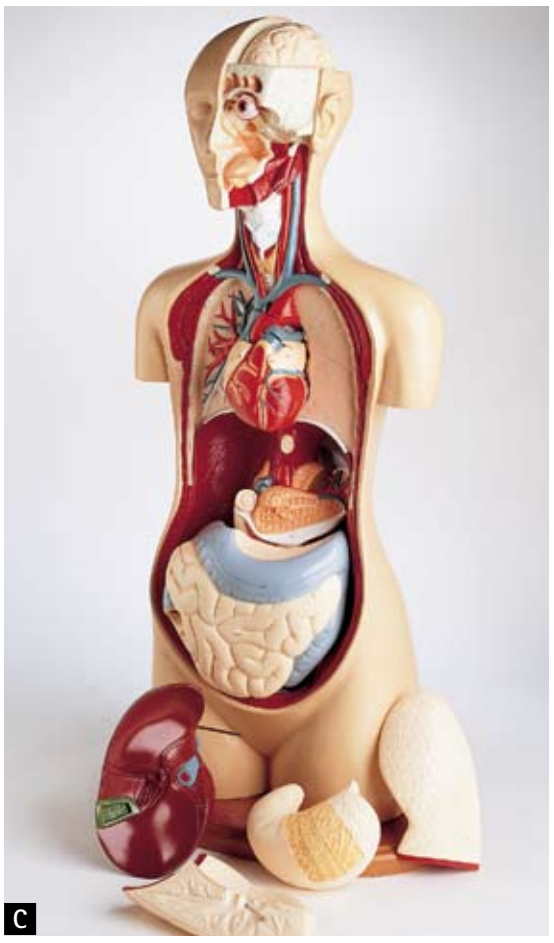
Dr. Tom Quinn, Creighton University School of Medicine

This powerful 40-minute presentation takes a regional approach to the human body, employing the Denoyer-Geppert Deluxe Knowbody Torso to provide a "tour" of major organs emphasizing their function as part of an integrated whole. Complete script and review questions are provided.

V710 **$49.00**



B


C

C. Basic KnowBody Teaching Torso

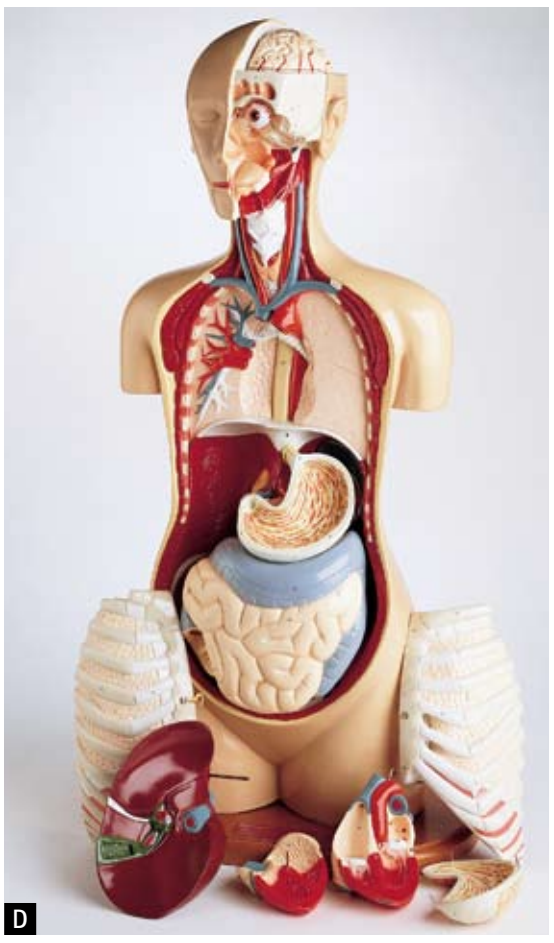
- 19 dissected or dissectible structures
- 10 detachable parts
- 150 hand-numbered anatomical features

With basic anatomical details for introducing the functional systems of the human body, the life size Basic KnowBody divides into the following parts:

- Eyeball
- One-piece brain half
- Left and right lung
- Heart (2 halves)
- Liver and gallbladder unit with segment of diaphragm
- One-piece stomach
- One-piece small and large intestine unit
- One-piece torso and head unit

Rigidly mounted on a hardwood base, it stands 37 inches (94 cm) tall.

T28


D

D. Advanced Knowbody Teaching Torso

- 20 dissected or dissectible structures
- 14 detachable parts
- 200 hand-numbered anatomical features

More detailed than the Basic KnowBody, our advanced KnowBody separates into the following components:

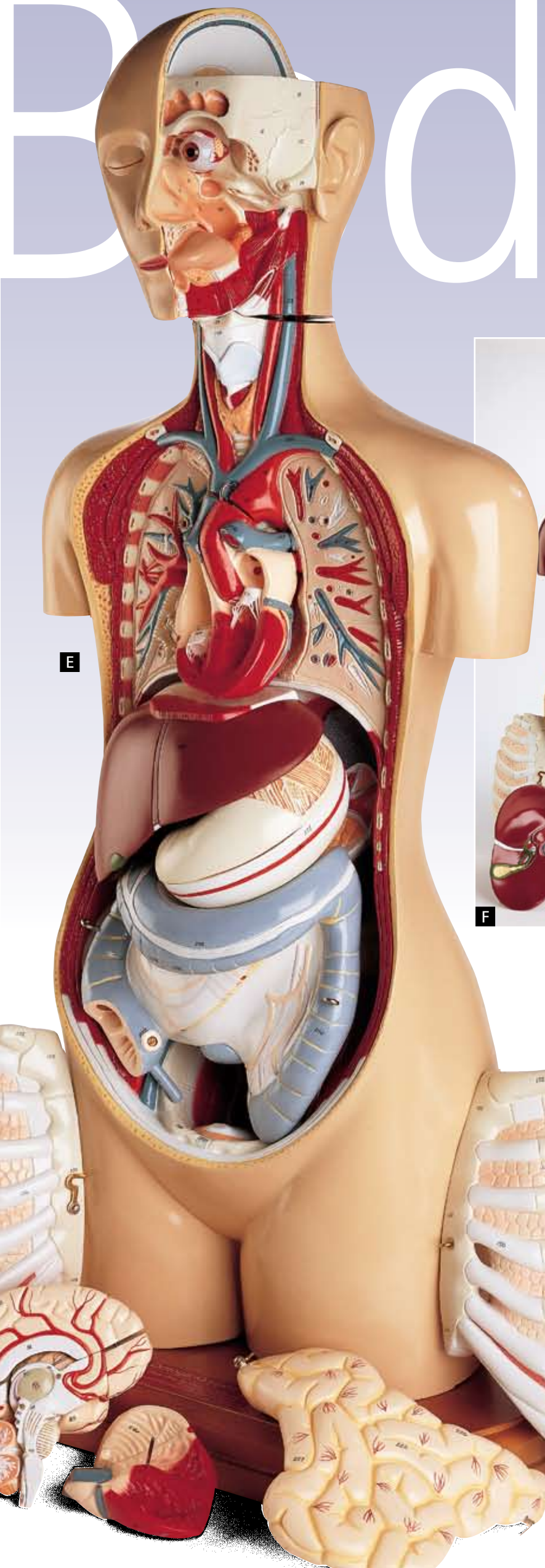
- Eyeball with extraocular muscles
- 4-part brain half
- Left lung with ribs
- Right lung with ribs (with blood vessels and bronchioles)
- Heart (2 halves)
- Liver with gallbladder and diaphragm segment
- Stomach (2 halves)
- One-piece small and large intestine unit
- One-piece torso and head unit

Rigidly mounted on a hardwood base, it stands 37 inches (94 cm) tall.

T29

FREE GIFTS when you order — see back cover. No Surprises!

Body™



E

F

E. Deluxe KnowBody Teaching Torso with Detachable Head and Hardwood Turntable Base

- 23 dissected or dissectible structures
- 16 detachable parts
- 300 hand-numbered anatomical features

Much more internally detailed than the Basic and Advanced KnowBody torsos, with emphasis placed on the brain, cardiopulmonary and digestive organs, the Deluxe KnowBody has a detachable head which aids in studies of the brain, head and neck. Other detachable parts include:

- Eyeball with extraocular muscles
- 4-part brain half with arteries
- Left lung with ribs (with blood vessels and bronchioles sectioned open)
- Right lung with ribs (with blood vessels and bronchioles intact)
- Heart (2 halves)
- Liver and gallbladder with color-coded blood vessels and ducts (includes diaphragm section)
- Stomach (2 halves)
- Large intestine
- Small intestine
- Torso unit

Stands 38 inches (97 cm) tall on rotating hardwood turntable base.

T10

F. Deluxe Black KnowBody Teaching Torso with Detachable Head and Hardwood Turntable Base

- 23 dissected or dissectible structures
- 16 detachable parts
- 300 hand-numbered anatomical features

Internally identical to the Deluxe KnowBody Torso T10, the Deluxe Black KnowBody Teaching Torso externally reflects the African heritage. Stands 38 inches (97 cm) tall on rotating hardwood turntable base.

T11

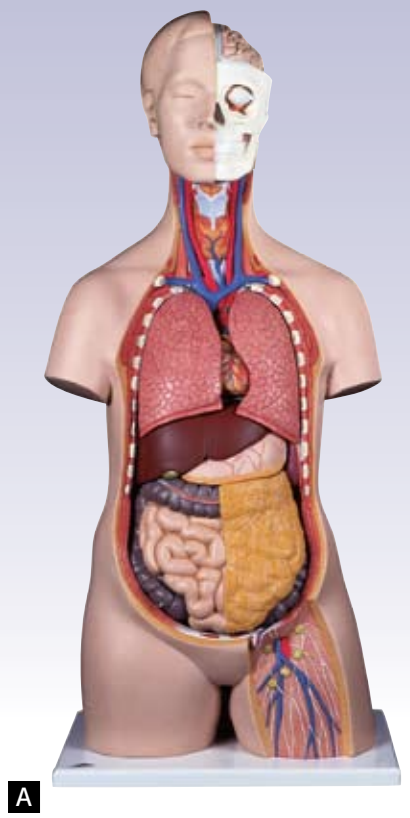
G. *Safely transport your torso with our* Heavy-Duty Carrying Bag

Fits ANY full-size torso, regardless of brand

This heavy-duty, fully-padded carrying bag with two handles and full-length zipper provides both protection and portability for your model.

T70

G

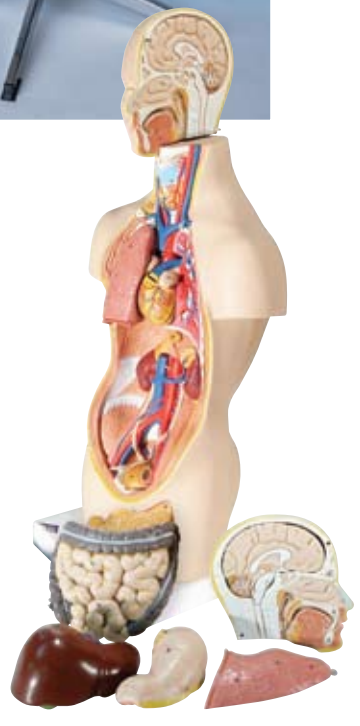

A

B

C

D

E


F

Classic Torsos!

All classic torsos are hand-painted on high quality plastic to show true detail. Developed and modeled by skilled craftsmen, each comes with a Torso Guide. 34¼×15×9¾ inches (87×38×25 cm).

A. Classic Unisex Torso, 12-Part

This economical manikin includes a two-part head, with the left half exposed to view the structures of the skull. The skull is also exposed in the cerebrum to show the brain. The eyeball, with optic nerve, can be removed.

The model's other removable parts include: two lungs, a two-part heart, a one-part stomach, a liver with gall bladder, a two-part intestine, and a kidney half.

T309

B. Classic Unisex Torso, 14-Part

Containing a three-part head, the nose and mouth cavities are exposed to the pharynx, and the skull cap is exposed to show the inner structures of the skull. The removable brain half includes arteries, and the removable eyeball contains muscles, ligaments, and the optic nerve.

The model's other removable parts consist of two lungs, a two-part heart, a one-part stomach, a liver with gall bladder, a two-part intestine, a kidney half, and a bladder half.

T313

C. Classic Deluxe Dual-Sex Torso, 24-Part

This comprehensive torso includes removable: three-part head • two-part stomach • four-part intestine system • female breast covering • two lungs • two-part heart • liver with gall bladder • front kidney half • four-part male genital insert • three-part female genital insert with embryo.

T330

D. Classic Deluxe Dual-Sex Torso with open back, 28-Part

Perfect for advanced demonstrations, this detailed torso contains an opened neck and back section to facilitate study of the vertebrae, invertebral discs, spinal cord, spinal nerves, vertebral arteries, and more.

Featuring a six-part head, the occiput and skull cap are exposed to show the skull's inner structures. The four-part brain with arteries is dissectible into frontal with parietal lobe, temporal with occipital lobe, and half of brain stem and half of cerebellum. The nose and mouth cavities are exposed at the pharynx, and the eyeball with muscles, ligaments, and optic nerve can be removed.

Other removable parts include: two-part heart • two lungs • two-part stomach • four-part intestinal tract • front half of kidney • liver with gall bladder • 7th thoracic vertebra • female chest wall • three-part female genital insert with embryo • four-part male genital insert.

T335

E. Life-Size Axial Torso

depicts human anatomy in cross section

The advent of modern diagnostic imaging procedures including CT scans, ultrasound, and Magnetic Resonance Imaging (MRI) has necessitated mastery of the human internal anatomy as viewed in axial planes. In response to the demands of these growing fields, this plastic reproduction presents a series of 15 axial sections in full-color, each faithfully replicating the topographical features of its particular section plane. Individual sections are cleverly mounted on pivoting spokes which allow them to swing out horizontally, rotate, or detach from the stand for ease of study. Overall dimensions: 51×16×14 inches (130×40×35cm).

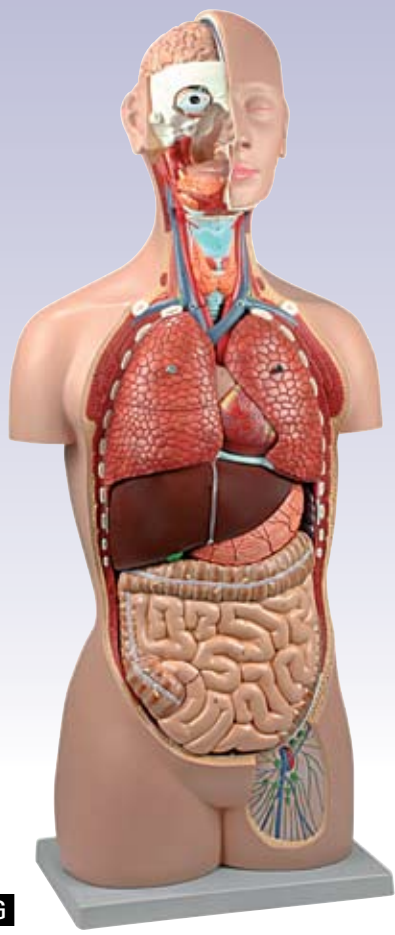
320

F. Classic Mini-Torso, 12-Part

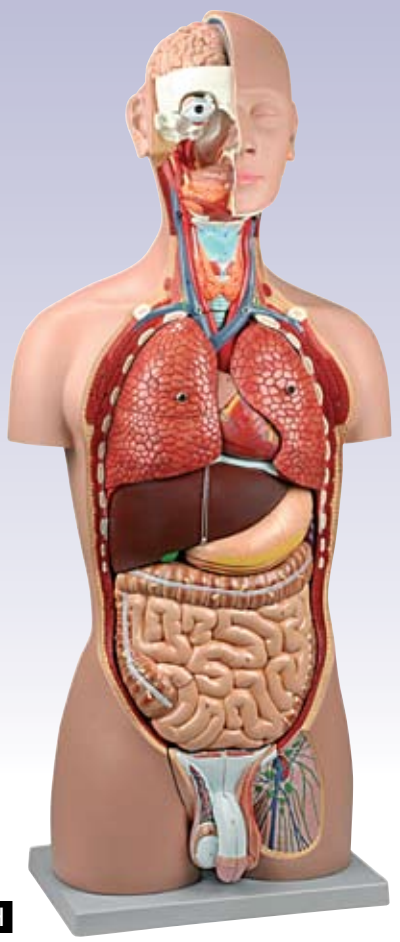
Half life-size but still retaining all quality and detail, this mini-torso is ideal for hands-on study in small groups. Its removable parts include: two head halves • brain half • two lungs • two-part heart • stomach • liver with gall bladder • two-part intestinal tract.

All parts are numbered and identified in a corresponding manual. 21¼×9½×7 inches (54×24×18 cm).

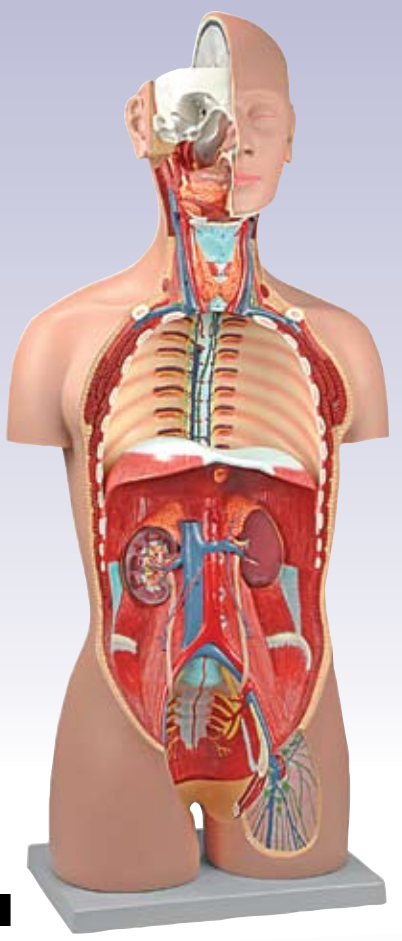
T322



G



H



I

Budget-Stretching Torsos!

G. Budget Sexless Torso "dissects" into 16 component parts

Includes Torso Guide on CD-ROM

Without genitalia but representing all other major organ systems, this faithfully-detailed yet budget-priced life-size model is well suited for any study of the human body.

Half of the head has been dissected open, as has the anterior aspect of the neck, and the thoracic and abdominal cavities.

Vital organs are removable, some of which further "dissect" to expose internal features.

Important anatomical structures have been numbered for identification in the key which accompanies the model. Also included with the torso is a digital torso guide on CD-ROM which is organized by body system.

Designed for hands-on study, the following organs and structures are detachable: • half of the brain sectioned medially showing blood vessels and internal structural details • eye with optic nerve and extraocular muscles • descending thoracic aorta with esophagus • right and left lung halves, exposing the bronchial tree and vasculature • heart which further divides in two to reveal atria, ventricles and valves • anterior half of one kidney, sectioned frontally • remainder of urinary system (kidneys, ureters, bladder, prostate, renal artery and vein, abdominal aorta and vena cava, iliac arteries and veins) as a unit • stomach • pancreas with duodenum and spleen, showing ducts and vessels • liver • small and large intestine unit with detachable portion of cecum.

Mounted on a rectangular base in an upright posture, the torso's overall dimensions are 35×13×9 inches (90×33×23 cm)

T651

H. Budget Torso "dissects" into 25 component parts and features interchangeable male and female urogenital organs

Includes Torso Guide on CD-ROM

Life-size, hand-painted plastic fully three dimensional reproduction of the human torso and head on which the thoracic/abdominal wall has been completely cut away, exposing the internal organs in situ.

Significant anatomical structures are numbered and referenced in the accompanying key. Additionally, a CD-ROM Guide in PDF format and organized by body system is included with the mode. Its high-resolution images highlight anatomical details of all body systems from a variety of angles.

The following organs and structures are detachable for hands-on study and to expose underlying features:

- Eye with extra ocular muscles and optic nerve
- Brain hemisphere, divided along the longitudinal fissure, showing blood vessels and intern structural details
- Trachea
- Descending thoracic aorta with esophagus
- Right and left lungs — each further divides into anterior and posterior halves — exposing the bronchial tree and vasculature
- Liver with gallbladder
- Kidney half sectioned along the frontal plane
- Heart which divides in two to reveal its pumping chambers and valves
- Stomach
- Pancreas, duodenum and spleen as a unit with cutaways to show the pancreatic duct and its entrance into the duodenum
- Small and large intestine unit with dissectible cecum
- Male urogenital organs, sectioned medially, in four parts
- Interchangeable four pieces medially sectioned female urogenital system showing both external and internal anatomy.

The torso stands on a platform base and measures 35×13×9 inches (90×33×23 cm) overall.

T600

I. Budget 27-part Torso features opened back with exposed spinal column

Includes Torso Guide on CD-ROM

Incorporating all the features of our 25 part Budget Torso number T600, but with the addition of a dissection of the back from the base of the head to the sacrum, this life-size torso exposes the entire spinal column and spinal cord, meninges, nerve branches and cauda equina.

The following components are detachable from the model:

- Eye with extra ocular muscles and optic nerve
- Brain half sagittally sectioned along the median including the brain stem and blood vessels
- Descending thoracic aorta and esophagus
- Both lungs — each of which divides into anterior and posterior halves exposing vessels and bronchi
- Liver with gallbladder
- Kidney half sectioned frontally
- Heart which divides in two to reveal its chambers and valves
- Stomach which dissects into two parts
- Pancreas with duodenum and spleen, dissections expose pancreatic dust and its entrance into the duodenum
- Small and large intestine unit with detachable cecum cover
- Interchangeable male and female urogenital organs — four parts each
- Twelfth thoracic vertebra which shows the spinal cord in cross section

Complete with key to numbered structures and Torso Guide on CD-ROM, the model is mounted upright on a pedestal base and measures 35×13×9 inches (90×33×23 cm) overall.

T650

We've got a **Muscular Anatomy Model** to fit your instructional requirements — AND budget.

Half-Size

A. 1/2 Scale Muscular Anatomy Figure with Internal Organs and Genitalia

33 removable parts; nearly 400 numbered features
Standing half as tall as a 5 foot 6 inch adult, this scaled-down replica is furnished with interchangeable genitalia of both sexes, and can be disassembled into 33 components: One-piece body unit consisting of head, torso, and both legs • Calvaria • 2-piece brain • Thoracic and abdominal cover • Right mammary gland • Right and left lungs (2 parts) • 2-piece heart • Stomach • Liver • Large and small intestine unit with detachable cecum • Female genital organs (2 halves) • Male genitals (2 halves) • 8 muscles of the left leg • Right arm • Left arm with 5 detachable muscles (6 parts).

The 33 inch (84 cm) figure stands on a platform base. Overall height, 35 inches (88 cm).

346-55

B. 1/2 Scale Muscular Figure without Internal Organs

20 component parts

Lacking male genitalia and internal organs, but otherwise identical to 346-55, this figure disassembles into 20 components: Body unit consisting of head, trunk, and legs • Calvaria •Right arm • Left arm with 5 detachable muscles (6 parts) • 8 muscles of the left leg • Thoracic/abdominal cover • Female genitals (2 parts).

347-56

Three-Quarter Size

C. Muscular Anatomy figure with Internal Organs and Interchangeable Genitalia

Separates into 45 component parts; nearly 700 number-coded features

Scaled to three-quarters life size, this plastic replica depicts the surface musculature of the human body as well as the more deeply lying muscles, nerves and blood vessels. Complete with interchangeable genitalia of both sexes and a full complement of internal organs, the figure disassembles onto 45 components: Head with neck • Calvaria • Brain (3 parts) • Torso with right leg and shoulder • Thoracic and abdominal wall • Mammary gland • Lungs (2 parts) • Thymus • Heart (2 halves) • Diaphragm • Liver with gallbladder • Stomach (2 parts) • Duodenum with pancreas • Intestine (2 parts) • Half of a kidney • Male genitalia (4 parts) • Female genitalia (2 parts) • Right arm • Left arm with 5 removable muscles (6 parts) • Left leg with 8 removable muscles (9 parts).

Mounted on a stand with castors, the figure stands 54 inches (138 cm) tall.

348-50

D. 3/4 Scale Muscular Figure without Internal Organs

Separates in 22 pieces

Superficially identical to 348-50, but without any internal organs or male genitalia, the figure disassembles into 22 components: Head and neck with removable calvaria • Torso with right leg and shoulder • Right arm with 5 removable muscles (6 parts) • Left leg with 8 removable muscles (9 parts). Overall height on caster base, 54 inches (38 cm).

349-51

Full Size — your BEST VALUE

E. Life Size Muscular Anatomy Set — *A TOTAL anatomy package you can afford*

Featuring the Male and Female Multi-Torso with Musculature , with 45 detachable parts; nearly 800 hand-numbered features

This replica features full-size internal organs depicting 11 body systems hand-painted in more than 50 colors, exposed vertebral column, interchangeable genitalia, plus additional models portraying the complete musculature of one arm and one leg.

Among the total 63 anatomical structures which are dissectible or already dissected are the following: Head • Left hemisphere of the brain (4 parts) • Eyeball with muscles • Half of larynx • Pectoral muscle • Mammary gland • Thoracic and abdominal wall • Lung halves (2 parts) • Heart (2 halves) • Liver with gallbladder • Stomach (2 halves) • Small and large intestines • Kidney half • 2 lumbar vertebrae • Female genitalia (4 parts) • Male genitalia (4 parts) • Torso • 3/4 scale left arm and shoulder with 5 detachable muscles • 3/4 scale left leg and hip with 8 detachable muscles.

Securely mounted on a hardwood Lazy-Susan style turntable base, the Multi-Torso stands 38 inches (97 cm) tall.

T25

F. Full Size Human Torso *manifests superficial and deep musculature 27 parts*

While emphasizing musculature, this versatile, highly detailed male model, sans genitalia, exhibits internal viscera as well.

Many organs are detachable to lay bare underlying structures, and to facilitate their detailed examination from all aspects. Several further dissect to expose internal features.

Detachable structures include:

- Calvaria
- Brain – dissectible into six parts
- Eyeball with optic nerve
- Left and right sternocleidomastoid muscles
- Pectoralis minor muscles
- Thoracic/abdominal wall
- Larynx – dissectible into two parts
- Both lungs
- Heart – dissectible into two parts
- Diaphragm
- Stomach – dissectible into two parts
- Liver with gallbladder
- Complete intestinal tract with appendix
- Anterior half of one kidney
- Half of urinary bladder
- Gluteus maximus muscle

Supported on a rectangular base, the torso measures 37½×23½×14 inches (95×60×35 cm) overall.

T160

Full-size

E

Highly Enlarged Striated Muscle Fiber

Magnified approximately 40,000 diameters, and sectioned at various levels this model depicts the ultrastructure of skeletal muscle fibers including features of the sarcomere with sarcaplasmic reticulum, myosin and actin micro fibrils, and a neuromuscular end plate with synaptic vesicles carrying neurotransmitters.

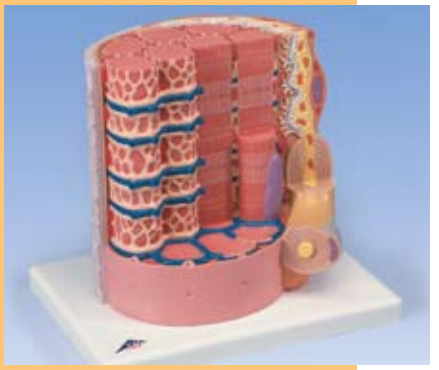
The model is mounted on a rectangular base. Overall dimensions: 13×9×12 inches (33×22.5×30 cm).

H632 **$175.00**

Microanatomy Muscle Fiber

Fully three-dimensional, and magnified some 10,000 times, this model reproduces a single striated muscle fiber — the basic unit of all skeletal muscles — along with its neuromuscular junction or motor end plate. Mounted on a base. Overall dimensions: 9¼×10¼×7¼ inches. (23.5×26×18.5 cm).

H360 **$244.00**



F

G. Budget Full-body, Half-size Muscle Figure *"dissects" into 30 component parts*

Representing the entire human body minus integument and genitalia, this half life size replica includes internal organs, and depicts superficial and deep musculature, tendons, ligaments, nerves and blood vessels.

The following components are detachable for close examination, and to expose underlying structures: • upper portion of cranium • brain which divides medially into hemispheres • masseter muscle • thoracic/abdominal wall • left and right lung halves •heart • stomach • liver • pancreas with duodenum and spleen – duodenum and pancreas are dissected open to show pancreatic duct • nine muscles of the lower limb • right and left arms • five muscles of the arm.

Standing upright on a base the figure measures 34x13x12 inches overall (87x33x30 cm).

T656 **$1,329.00**

G

LIFE-SIZE HUMAN ANATOMY FIGURE

See p.66 for full details.

A. Life-Size "Dissectible" Human Anatomy Figure *separates into 41 parts – including interchangeable male and female genitalia*

Standing fully five foot eight inches tall on a wooden roller base, this versatile life-like figure has the skin peeled away on its left half exposing the underlying musculature of the head & neck, thorax, abdomen, upper and lower limbs, while the integument remains intact on the right.

Simply lift off the thoracic/abdominal wall to access the highly detailed removable viscera.

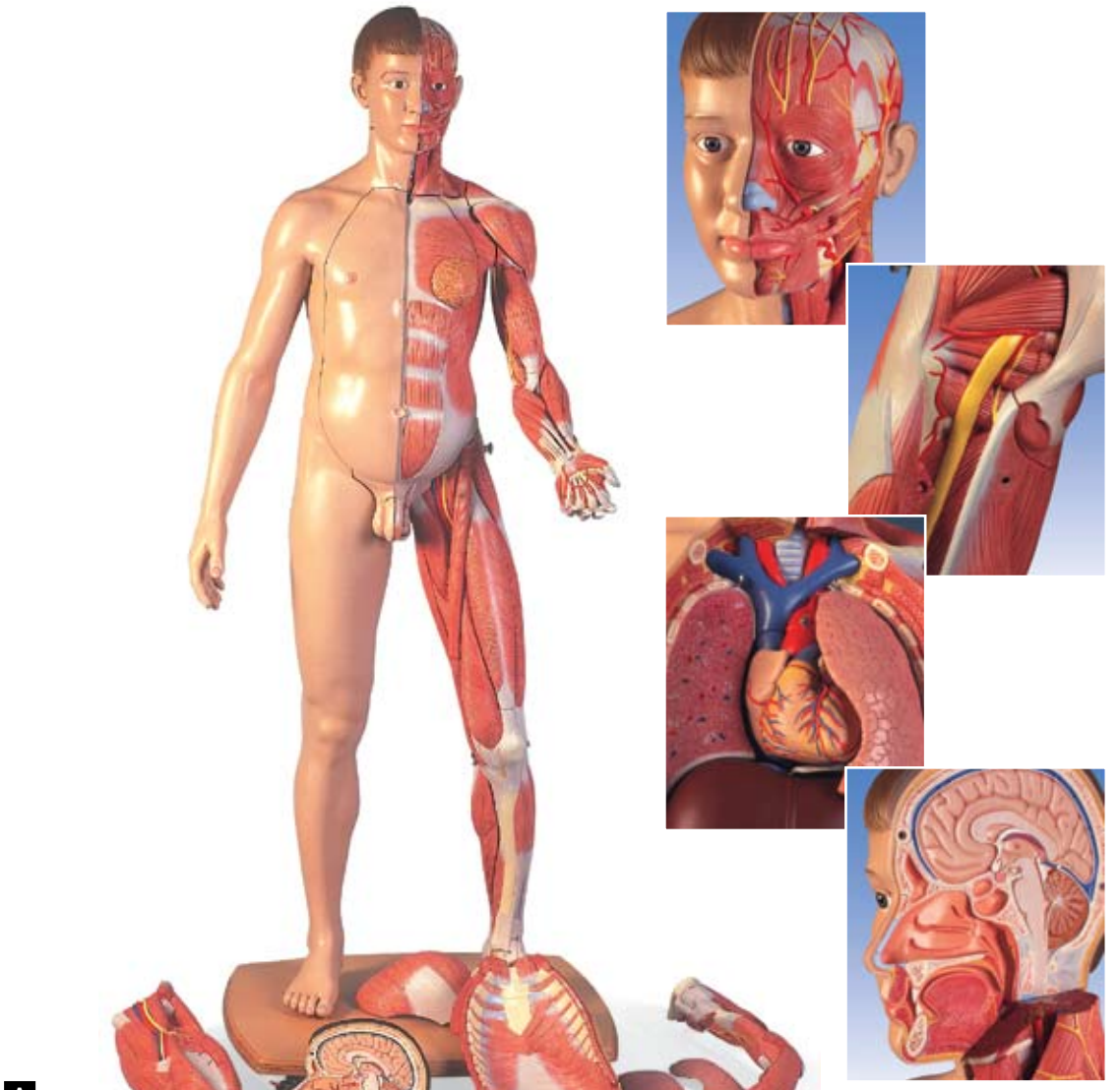
The following component parts can be detached from the figure for detailed study:

- Two-part head
- Brain hemisphere
- Mammary Glands
- Thoracic/abdominal wall
- Both lungs
- Heart (divides in two)
- Liver
- Stomach (divides in two)
- Kidney half
- Intestines (4-parts)
- Interchangeable female genitalia with embryo (3 parts)
- Interchangeable male genitalia (4 parts)
- Sternocleidomastoid muscle
- Deltoid muscle
- Biceps brachii
- Triceps brachii
- Palmaris longus with flexor carpi radialis muscle
- Brachioradialis with extensor carpi radialis muscle
- Skin of the left arm
- Upper left leg
- Lower left leg
- Sartarius muscle
- Gluteus maximus muscle
- Rectus femoris muscle
- Gastrocnemius muscle
- Biceps femoris long head with semitendinosus muscle

Special Bonus Software – worth over $120.00
Included at no extra cost with the anatomy figure are three CD ROMs:

1) Illustrated key to the human figure with detailed illustrations and descriptions of individual structures in seven languages.
2) Anatomy Trainer (CD101)
3) Muscle Trainer (CD 102)

T530 Life Size Human Anatomy Figure



B. One Quarter Scale Desktop Anatomy Figure *sets a new standard for anatomical accuracy*

A boon to serious artists, medical professionals, sport, fitness, health and wellness trainers, as well as students of anatomy, this meticulously-detailed perfectly-scaled anatomy figure has been sculpted referencing cadaver dissections and callipered line models.

Cast in durable polyurethane, its convenient desktop size, portability and ease of handling ideally suit it to small lab team study.

Superficial muscles, ligaments, tendons and major blood vessels are carefully delineated. Flayed sections reveal deeper muscles and expose key skeletal features. All are painstakingly hand-painted in like-like colors.

Magnetic attachments permit removal of arms, head and genitalia for individual study.

Posed in a neutral resting posture, the figure has one forearm pronated and the other supinated for comparison.

The model stands on a detachable weighted base and is supplied with the following accessories: • a black and white 2-sided quick-reference muscle guide 10½w × 23½ h inches (27×60 cm), printed on heavy card stock • a 2-sided full color self-test anatomical wall chart printed to the same scale as the figure itself — each side shows front and back views of the figure — labeled references on one side-unlabeled on the other. Chart measures 40w ×26h inches (102×66 cm) • a protective medical gown/dust jacket.

Desktop anatomy figure measures 24×5×10 inches overall (61×13×25 cm).

DT99

C. Female Mini-Muscular Figure

Two Parts

Standing just 22 inches tall and representing the surface musculature of the human body, this mini-model contains a detachable thoracic/abdominal cover that exposes the underlying viscera. Internal organs cannot be removed.

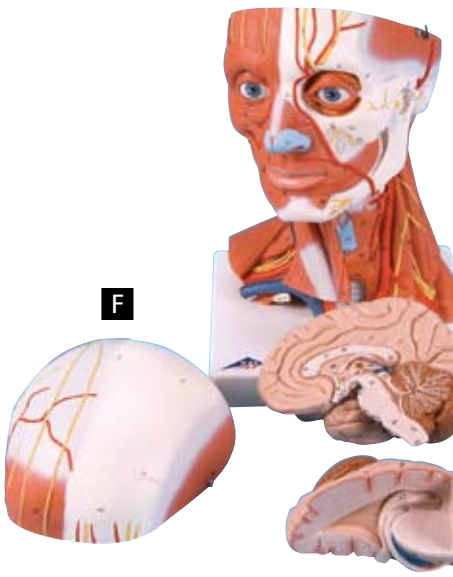
Molded entirely in plastic, it is furnished with a key to its number-coded structures. Overall dimensions: 22×10×7 inches (57×25×18 cm).

345-59

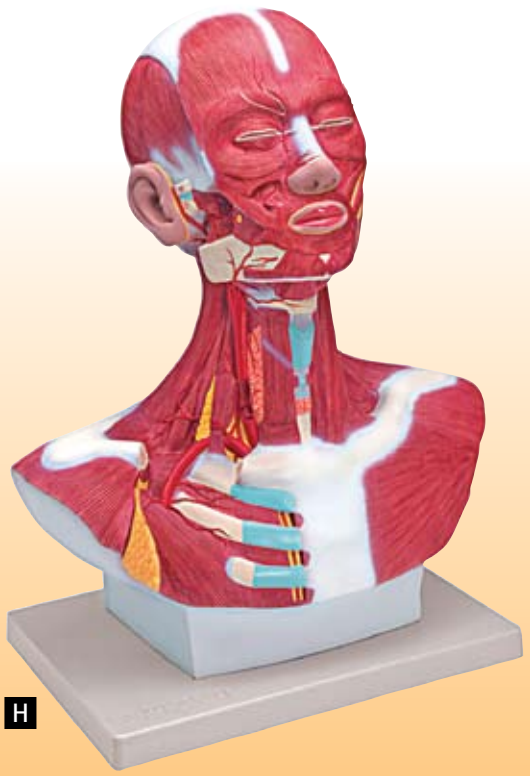
D

D

E


F

G


H

D. Right Half of Head and Neck Musculature

This sagittally sectioned, unbreakable replica represents the human head and neck down to the level of the clavicle. Surface muscles and blood vessels are depicted on one side, while the other shows the median section through the interior. 119 features are numbered and identified in the corresponding key. Overall dimensions: 13×8×7 inches (33×20×18 cm).

A74

E. External/Internal Head

Displaying superficial muscles, nerves and blood vessels of the right half of the human head, the model also exhibits internal structures of the head and neck as seen in medial sagittal section.

Life-size, the model is mounted on a detachable square pedestal base.

Overall: 8¾×7×18 inches (22×18×46 cm).

A140

F. 3/4 – Scale Head and Neck with musculature, 5 parts

Somewhat less than life-size, this highly detailed model replicates the entire human head and neck. Surface musculature and some of the deeper muscles are sculpted in full relief, as are major blood vessels, nerves, larynx and trachea.

The calvaria detaches exposing the brain which lifts out and divides into three sections. Complete with key to the 186 coded features.

Overall dimensions: 7×7×14 inches (18×18×36 cm).

A500

G. Premier Muscled Skull *brings full dimensionality to the study of head and facial musculature*

Superior to charts and textbook illustrations which lack depth, this fully three dimensional presentation incorporates life like reproductions of the muscles of facial expression and mastication.

Muscles have been molded from a specially formulated material which is flexible, yet tough enough to heavy hands on study. Among the muscles represented are: Frontalis • Temporalis • Orbicularis oculi • Nasalis • Levator anguli oris • Levator labii superioris • Zygomaticus major • Zygomaticus minor • Masseter • Orbicularis orbis • Mentalis • Depressor labii inferioris • Depressor anguli oris • Pterigoid • Mylohyoid • Left and right digastrics.

Ideally suited for anatomy studies, patient education, allied health training, medical-legal documentation, and forensic science. Complete with illustrated key.

SK86

H. Budget Musculature of the head, neck and upper thorax

Depicting surface musculature on the left side and the deeper layer on the right side, this life-size rendition also clearly exhibits the pathways of the carotid and sub clavian arteries.

Mounted bust-like on a rectangular base, the one piece model measures 14½×9×18 inches overall (37×23×46 cm).

A603-1

Muscled Arms & Shoulders

A. Six-Part Muscular Anatomy of the Arm and Shoulder

Scaled to 3/4 life-size, this plastic replica presents the muscles, nerves, tendons, blood vessels and bones of the left hand, wrist, arm and shoulder. Five superficial muscles can be individually detached to expose the more deeply lying muscles. Model stands 24 inches (60 cm) high on a pedestal base, and lifts off for hands-on scrutiny. Includes key card.

343-10

B. 6-piece Full-Size Muscle Anatomy of the Upper Extremity

Complete with detachable support base, this deluxe life-size rendition includes the muscles, tendons and nerves of the shoulder, arm, wrist and hand. To expose deep-lying structures, you can detach the following muscles: (1) deltoid, (2) biceps, (3) triceps, (4) palmaris longus with flexor carpi radialis, (5) brachio radialis with extensor carpi radialis brevis. Overall dimensions: 16×19×19 inches (41×48×48 cm)

350-11

C. Budget-priced life-size model clearly depicts shoulder musculature

Priced so attractively you can station several around your anatomy lab, this one-price model is sectioned so as to plainly illustrate superficial and deep muscles of the shoulder with their attachments, as well as ligaments and bones of the shoulder girdle.

A621

D. Budget-priced musculature of the arm, shoulder, & hand

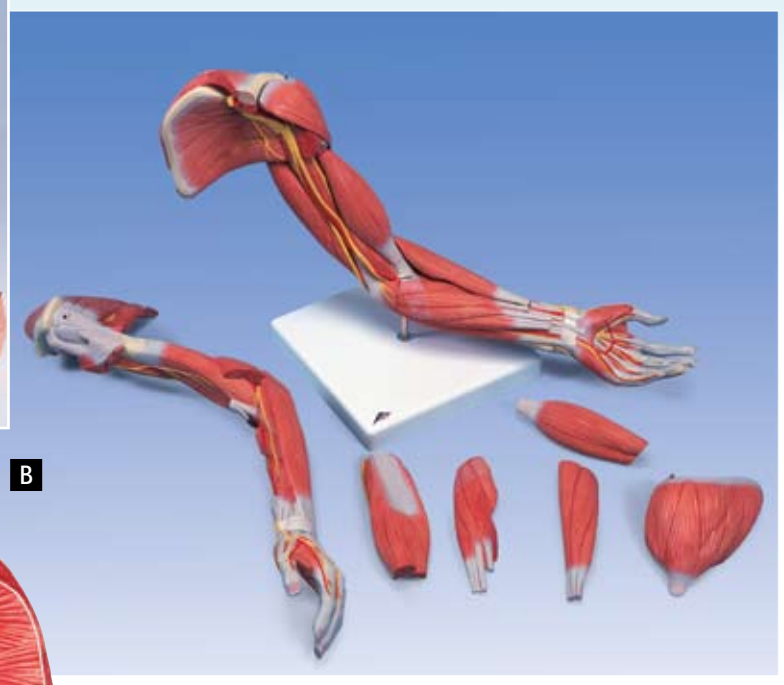
Life-size, 7-part

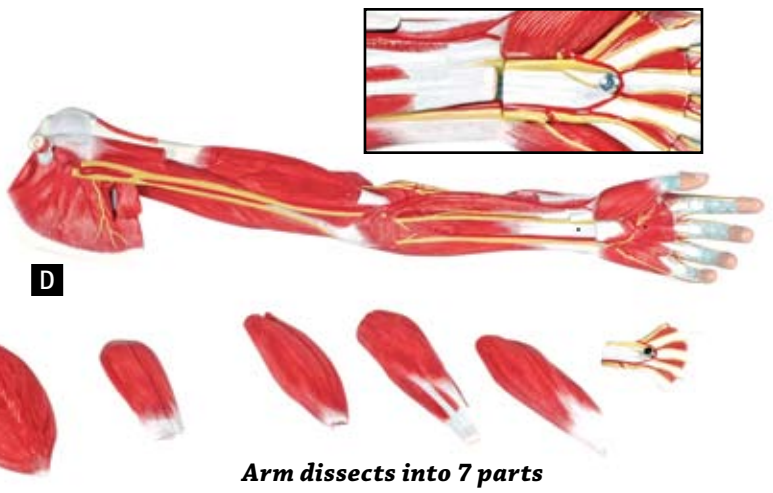
Encompassing superficial and deep lying muscles, major vessels, nerves and ligaments of the shoulder, arm, wrist and hand, this hand-painted model is "dissectible" into seven parts for in-depth study.

The following parts are detachable: • deltoid muscle • biceps brachii muscle • triceps brachii muscle • palmaris longus muscle with flexor carpi radialis muscle • brachioradialis muscle with extensor carpi radialis brevis muscle • palmar aponeurosis.

Overall dimensions: 29×8×4¾ inches (74×20×12 cm).

A631





Arm dissects into 7 parts

Laminated Clinical Anatomy and Physical Therapy Posters

Heat-sealed on both sides with clear plastic, they are durable, tear proof, and can be written on/wiped off using dry-erase markers! These posters are bound with sturdy rods on the top and bottom, and a hook is included for easy hanging.

Poster Size: 20 x 28 inches (50 x70 cm).

3004P-08 Male Muscular System Poster
3036P-08 Musc System — Deep Layers Front View Poster
3037P-08 Musc System — Deep Layers Rear View Poster
3050P-08 Musculature Of The Shoulder And Back Poster

See our entire line of anatomy charts, featured on pages 122-127

Muscled Legs & Hips

E. Nine-Part Muscular Anatomy of the Leg and Hip

Dissectible into a total of nine parts, this 3/4 scale reproduction depicts the muscles, nerves, bones, tendons and blood vessels of the left leg, foot and hip. Eight superficial muscles detach individually to expose the deeper muscle layer. Key features are numbered for identification in the accompanying key card. Mounted vertically in an inverted position on a pedestal base the leg stands 30 inches (77 cm) tall.

342-20

F. 7-piece Full Size Muscle Anatomy of the Lower Extremity

Mounted upright on a detachable support base, our deluxe life-size lower extremity reproduction incorporates the muscles, tendons and nerves of the hip, thigh, leg, ankle and foot. You can disassemble the model into a total of seven component parts. First, detach the thigh from the lower leg (2) just below the knee, then you can proceed to detach the following muscles and muscle groups: (3) biceps femoris (long head) along with the semitendinosus, (4) sartorius, (5) gluteus maximus, (6) rectus femoris, (7) gastrocnemius. Overall dimensions: 51×13×16 inches (130×33×41 cm).

351-21

G. 3-piece Full Size Lower Leg Musculature with Sectioned Knee

With a detachable knee cross section which exposes the articular surfaces of this important synovial joint, this life-size replica of the lower leg, ankle and foot also features a detachable gastrocnemius muscle. Supported in an upright posture, the model lifts off its base for hands on scrutiny. Overall dimensions: 24×10×11 inches (60×26×27 cm).

352-22

H. Budget-priced Muscular Anatomy Of The Human Leg & Hip

13 parts, life-size

Complete with major blood vessels, ligaments and nerves, this life-size reproduction encompasses the musculature of the hip, leg, ankle and foot.

For detailed study, and to expose the underlying deep muscles, the following muscles and structures are detachable: • sartorius • biceps femoris (long head) • gluteus maximus • solaris •gastrocnemius • gluteus medius • gracilis • semitendinosus with semimembranosus • rectus femoris • extensor digitorum longus • tensor fasciae latae • sole of the foot.

The hand-painted plastic model measures 43×7½×5¾ inches overall (110×19×14.5 cm).

A636

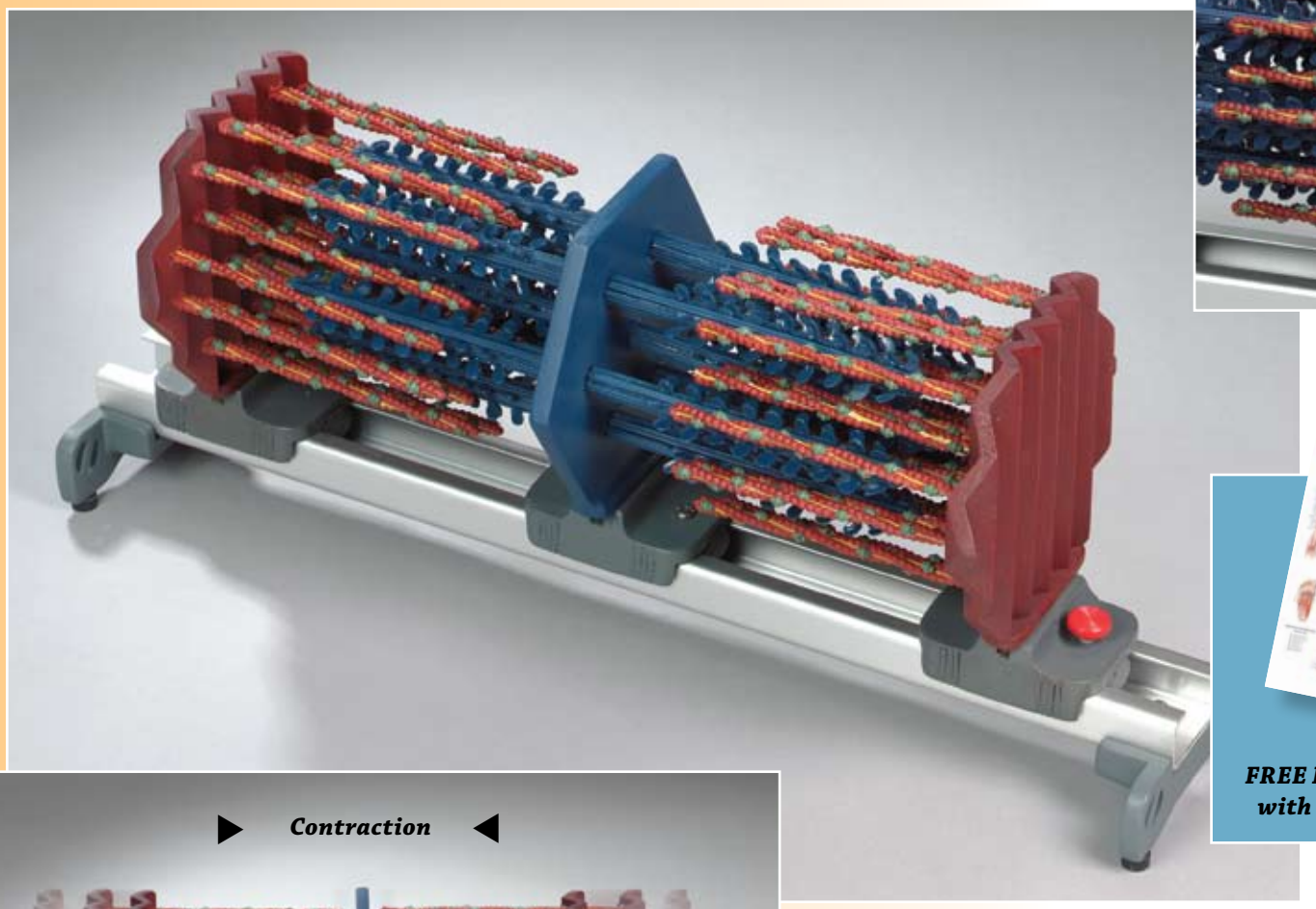
Leg dissects into 13 parts

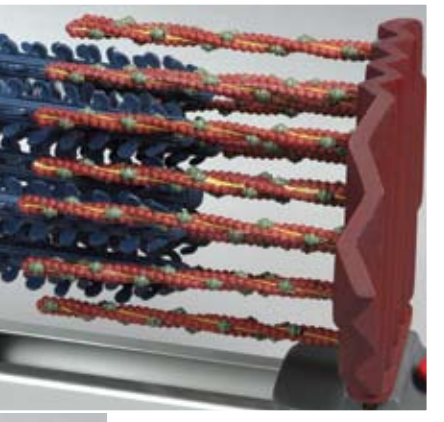
COMPLETE SARCOMERE MODEL

See p.70 for full details.

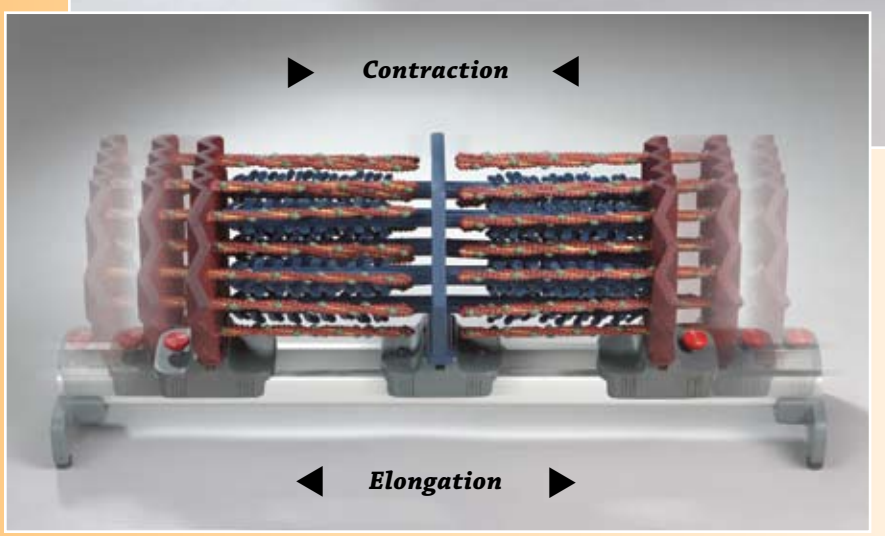
Complete Sarcomere Model

Why depend on textbook diagrams to attempt to explain physiology and mechanics of skeletal muscle contraction when you can utilize an actual 3-dimensional working model?

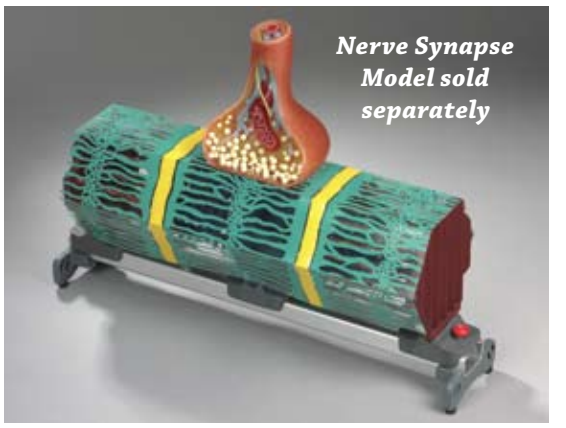




FREE Muscular System chart with every model purchase

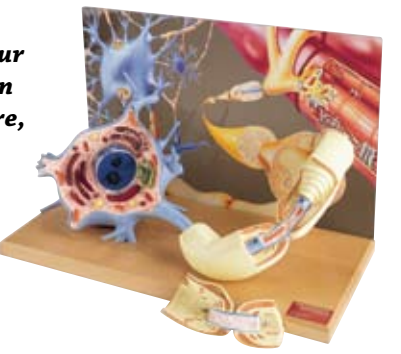


To further enhance teaching . . .



***SAVE $75** with the purchase of our 318 Nerve Synapse (shown above, and featured on p. 79) and our complete Sarcomere Model!*

***SAVE $100** with the purchase of our A67 Motor Neuron model (shown here, and featured on page 79) and our complete Sarcomere Model.*



Complete Sarcomere Model

Representing a complete sarcomere — the smallest functional unit of a myofibril of striated muscle — with Z lines or disks at either end, and scaled to tens of thousands of times actual size, this first-ever working model ***graphically illustrates the sliding filament theory of skeletal muscle contraction.***

Reflecting the most recent advances in electron microscopic ultrastructure, the model unequivocally demonstrates that individual myofilaments neither change shape nor shorten, rather the proteins actin and myosin slide past one another, resulting in the shortening of the sarcomere itself.

Clearly depicted are the arrangement, configuration, and function of thin filaments (actin, troponin, tropomyosin), and thick filaments (myosin, myosin heads), the M-line and Z-line.

Invaluable not only for physiology classes, but also for athletic trainers, sports medicine specialists, physical and massage therapists, the working sarcomere model can also plainly demonstrate muscle tone, muscle cramps, knots and tears.

Included with the sarcomere model is a translucent sheath (shown at right) representing the sarcoplasmic reticulum which can be wrapped around the sarcomere to elicit discussion and elucidate understanding of the role calcium ion transport plays in muscle contraction.

Measuring 22L×6W×8H inches overall, the working sarcomere model comes complete with sarcoplasmic reticulum and user manual.

AP79

Original Sarcomere concept by Mark Bigelow, LMT, Licensed Masssage Therapist. Patent Pending.

A. Deluxe Desktop Reference Therapy Hand

Complete with quick-reference booklet covering hand anatomy relevant to hand injury and therapy, this colorful visually-oriented desktop model illustrates key features of structural anatomy that are essential to understanding and treating hand injuries.

Cast from an actual human hand and wrist, both the volar and dorsal aspects of this life size replica have been schematically painted to aid the clinician or therapist in the visualization of the following significant anatomical structures and injury zones within the hand:

- Bony anatomy
- Primary tendon and ligament structures and how they relate to bony anatomy
- Palpable superficial tendons, nerves and blood vessels of the volar wrist
- Schematic representations of the thenar and hypothenar muscles of the palm
- Five primary types of fracture injuries common to the hand
- Tendon injury zones on both the dorsal and volar aspects of the hand

Freestanding in an upright position, the desktop therapy hand model measures 13H×6W inches overall.

DH99

Original concept by Sheri Roberts, Occupational Therapist/Certified Hand Therapist.

A

B. Forearm MuscleThreader ™

A learn-by-doing tool for teaching muscle origins and insertions of the forearm

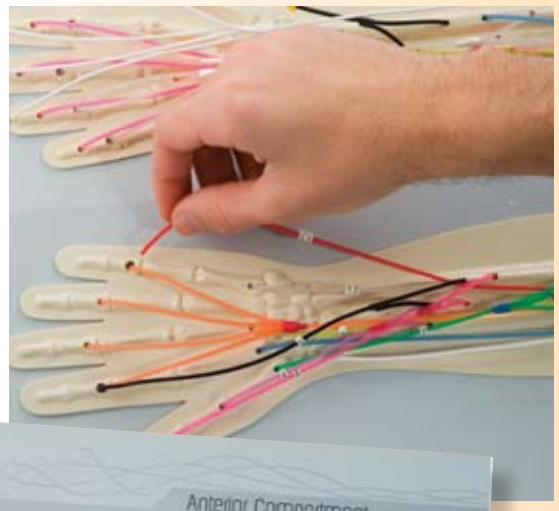
Consisting of a vacuum-formed relief template of the human forearm, this interactive model challenges students to "thread" color-coded strings — each representing a specific muscle of the forearm — through their appropriate osseofibrous tunnels and onto their correct origin and insertion locations.

Content is divided into anterior and posterior compartments. Muscle threads can be detached and restrung repeatedly until mastery is achieved.

Featuring a quick-reference key, useful for self-study, review and testing, printed on the model, the Forearm Muscle Threader measures 24L×14W×1H inches overall.

FMT 100

Original concept by Beverly Anderson and Sheri Roberts, Occupational Therapist/Certified Hand Therapist.



B

Master the Musculoskeletal System

Using these revolutionary Biomechanics Model Kits

Biomechanics kits offer a complete lab-tested system for teaching and learning how bones, joints and muscles work together to produce support and movement. Finally, all the anatomy makes sense as students discover the function of the musculoskeletal system and relate it to their own bodies. Through guided exploration, students discover the basic principles of biomechanics and move from basic knowledge of parts to real understanding of function. Tests have shown that students really enjoy this laboratory and are strongly motivated to understand these concepts that are so connected to their own actions. Working ideally in teams of four, students practice observation, measurement, data gathering and analysis, prediction, plus calculations and problem solving.

Setup and care is explained in a short, illustrated manual. A teaching and learning guide helps with lesson planning and implementation. A laboratory guide takes students through the learning activities in a step-by step manner, then keeps them studying out of class with problem sets. A test bank provides assessment items in various formats that you may use directly or adapt for your special needs and objectives. Using these features in combination with the models themselves, you will always have reliable, repeatable, hands-on-results.

Perfect for lab group studies

Comes complete with cirriculum

... students will:

- *practice observation*
- *measurements*
- *data gathering*
- *predictions*
- *problem solving*

A. Complete Biomechanics Module

Your Best Buy

Includes: Biomechanical Arm Model • Biomechanical Leg Model • Support Base and Rod • Support Clamps • Force Cord Assembly (Cable, handle, connectors, fine adjustment, force gauge) • Brass Weights — 1-50g, 1-100g, 2-200g • Instructor's Curriculum Guide — containing illustrated instructions for set up and care of models, teaching and learning guide, and test bank • A reproducible Student Laboratory Guide.

Note: Because this module includes only one Support Base and one Force Cord Tensioner, Arm Model and Leg Model cannot be used simultaneously.

AP15

B. Biomechanical Arm Kit

Includes: Biomechanical Arm Model • Support Base and Rod • Support Clamps • Force Cord Tensioner (Cable, handle, connectors, fine adjustment, force gauge) • Brass Weights — 1-50 g, 1-100 g • Instructor's Curriculum Guide — containing illustrated instructions for setup and care of models, teaching and learning guide, and test bank • A reproducible Student Laboratory Guide.

AP11

C. Biomechanical Leg Kit

Includes: Biomechanical Leg Model • Support Base and Rod • Support Clamps • Force Cord Tensioner (Cable, handle, connectors, fine adjustment, force gauge) • Brass Weights — 2-200 g • Instructor's Curriculum Guide — containing illustrated instructions for setup and care of models, teaching and learning guide, and test bank • A reproducible Student Laboratory Guide.

AP12

FREE GIFTS when you order — see back cover. No Surprises!

The Heart as a Pump

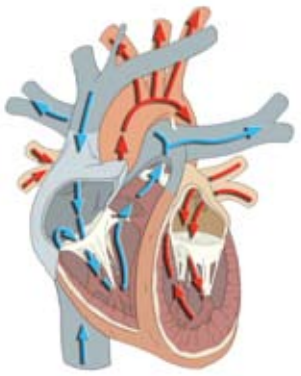
explore and learn the fundamental mechanical features of the heart

Hands-on Cardiac Function Simulator
Designed for hands on collaborative learning by teams of 3-4 students, this working model simulates all of the key functions of the human heart. Through a series of open-ended investigations which emphasize problem solving, students will learn:

- How valves function and how they produce one way blood flow.
- To measure cardiac output and the factors and conditions which affect cardiac output.
- To collect quantitative, experimental data and use it to explain heart function.
- To solve problems and predict how different conditions influence and affect cardiac function.
- To relate the mechanical function of the heart, to heart structural anatomy.

Equally well suited to programs in community colleges, 4-year institutions and professional schools, the complete learning package includes the pumping heart model with support base, and illustrated manual which incorporates a 10-page instructor guide, set-up instructions, and a 3-4 hour hands on inquiry exercise, directly insertable into any anatomy and physiology curriculum.
AP44

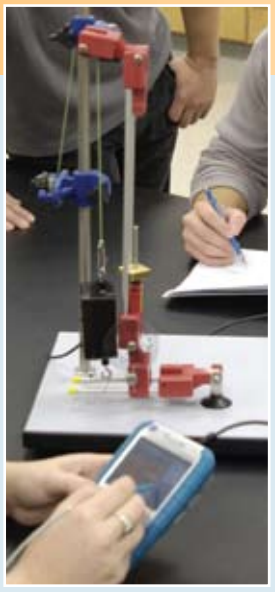
***FREE* Heart chart with purchase of model**



Hands-on lab activities reinforce learning and maximize retention

Students will learn:

- how valves function and how they produce one-way blood flow
- to calculate cardiac output and other cardiac parameters
- to collect and analyze data to solve problems
- how the mechanical function of the heart relates to its anatomical structure



Incorporating the latest technology into our Biomechanics Kits (featured on p. 72), your class will take data collection to the next level . . .

Replacing our current scale with this digital Dual-Range Force Sensor . . .

you will be able to capture data:

- direct to your computer using our GoLink adapter

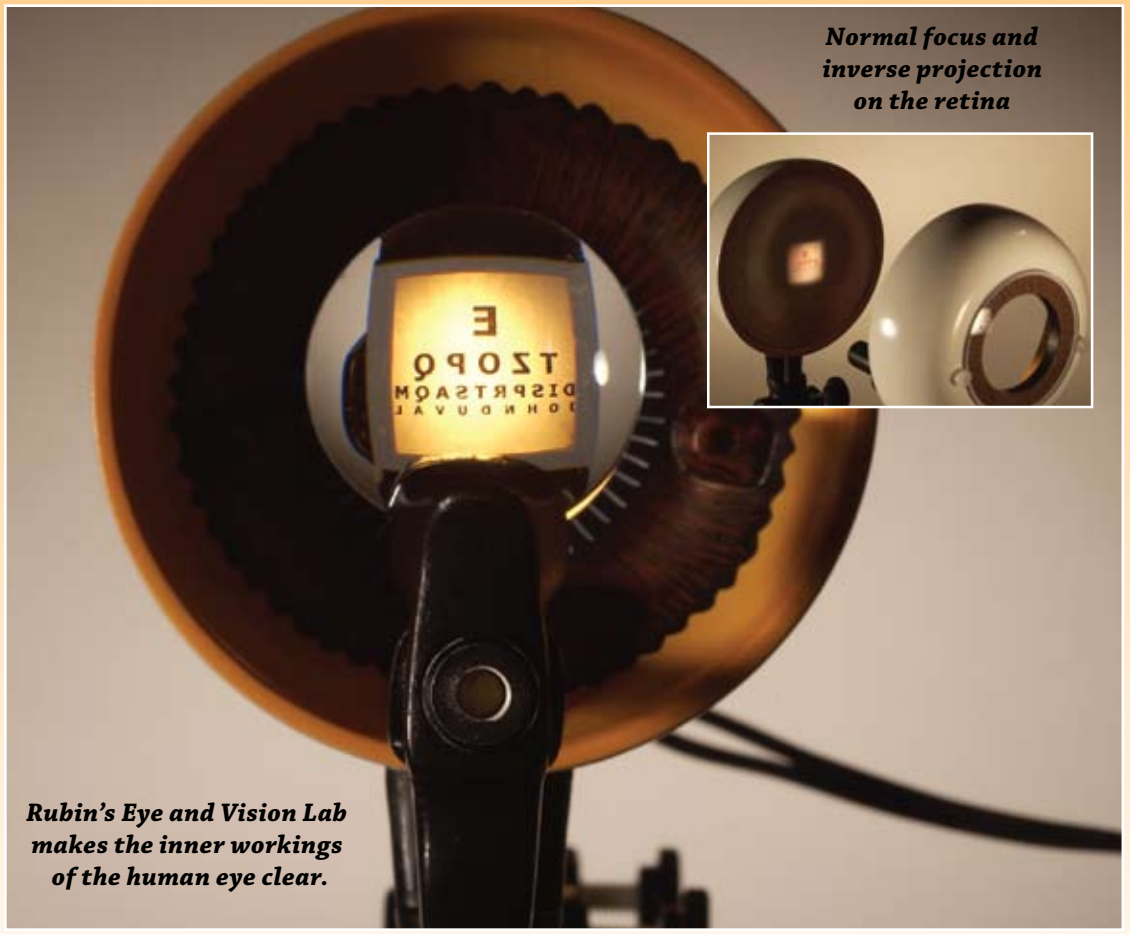
or

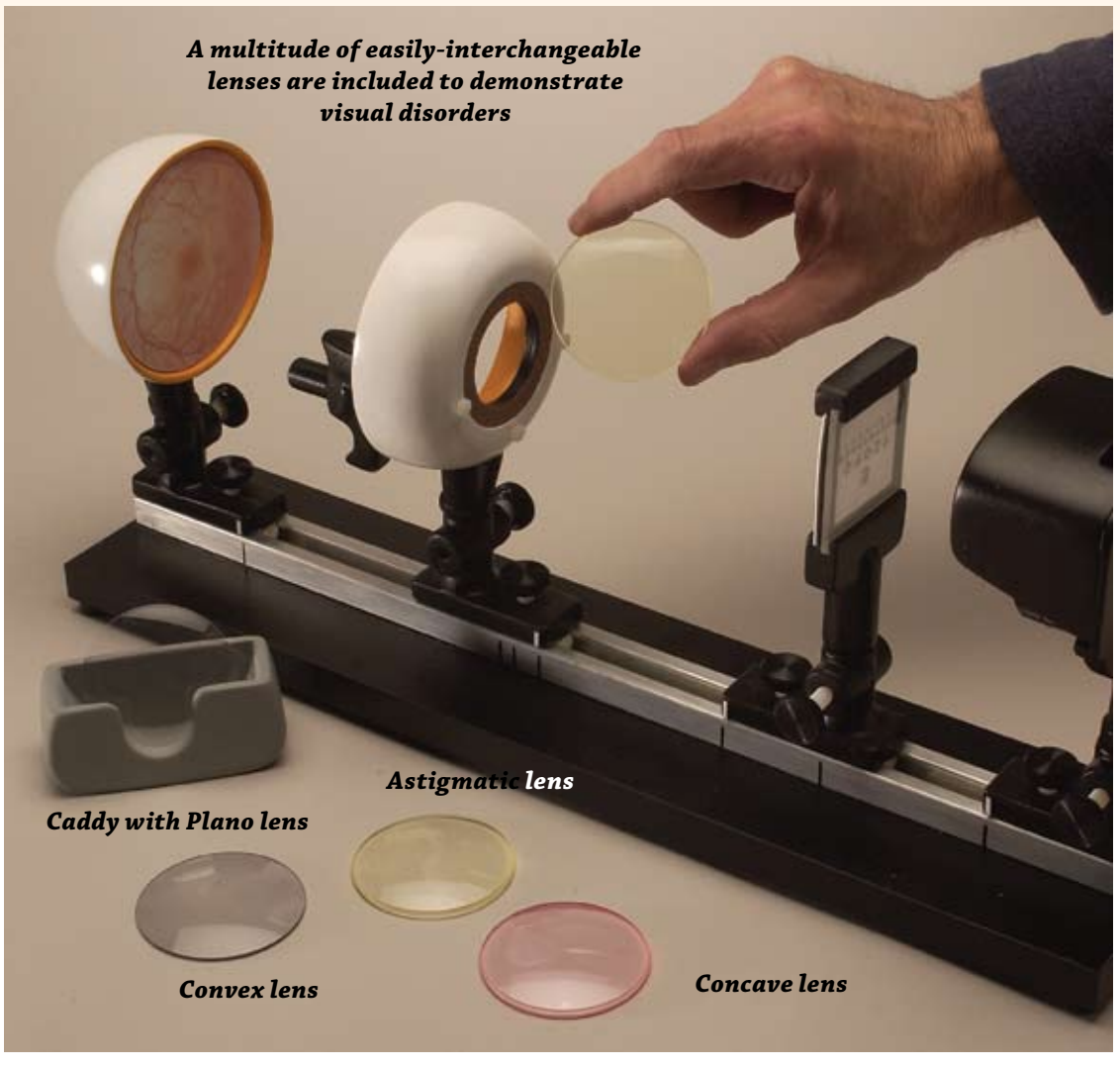
- using our hanhheld stand-alone LabQuest unit, shown at left

Collecting data has never been quite this easy . . . or fun!
For more information on the benefits your students will receive, please vist **www.denoyer.com/BioMechanics**

AP70 Dual Force Range Sensor
AP71 Go!Link Interface
AP72 LabQuest

Seeing is believing...


Normal focus and inverse projection on the retina
Rubin's Eye and Vision Lab makes the inner workings of the human eye clear.


A multitude of easily-interchangeable lenses are included to demonstrate visual disorders
Astigmatic lens
Caddy with Plano lens
Convex lens
Concave lens

Using Rubin's Eye and Vision Lab, *your students won't have to rely on visualization — they'll actually see how the human eye functions!*

Rubin's Eye and Vision Lab

Through a series of engaging hands-on, eyes-on experimental activities, your students will not only witness how the human visual organ functions, they will also recreate common visual disorders and discover how to correct them.

Using the Rubin's eye lab they will first demonstrate how crisp, inverted images are projected onto the retina during normal vision (emmetropia.)

Next they'll discover how the internal lens of the eye must adjust its focal length in order to bring near objects into sharp focus (accommodation.)

They will go on to reproduce each of the following visual disorders:

- Myopia (nearsightedness)
- Hyperopia (farsightedness)
- Presbyopia (age-related near-vision failure to accommodate)
- Astigmatism (blurred or distorted vision at any distance due to irregular corneal curvature)

For each disorder, your students will in turn have to implement appropriate corrective steps — reinforcing the learning experience as they do so.

Complete Learning Package

The self-contained Rubin's Eye Lab package incorporates:

- An optical bench with track and indicator markings for experimental repeatability.
- Object slide holder.
- Anterior eye hemisphere with integral corneal lens holder and patented trigger-focusable internal lens.
- Posterior eye hemisphere with retina.
- Long life halogen light source (20W, 115V, 50/60 Hz)
- Four adjustable supports for positioning components on bench.
- Set of five interchangeable color-coded corneal lenses made of impact-resistant optical plastic:
  (1) plano lens (clear)
  (2) concave lens (pink)
  (3) convex lens (gray)
  (4 & 5) two astigmatic (toric) lenses (yellow)
- Handy lens caddy for stowing corneal lenses.
- Step-by-step illustrated instructional guide to experiments and additional suggested activities.

Overall: 18Lx4½Wx8H inches (46×11×20 cm).

AP66 Rubin's Eye and Vision Lab

Original design concept patented by Bruce Rubin, licensed optician. Developed, engineered and manufactured exclusively by Denoyer-Geppert.

A. Functioning Ear Model

Instead of studying textbook diagrams, let your students participate in a dynamic hands-on demonstration that really works.

With its life-like vibrating eardrum, movable ossicles, and liquid-filled cochlea with basilar membrane, the functioning ear model mimics your own ear — it lets you and your students actually demonstrate how the structure of the ear makes hearing possible.

HOW THE MODEL WORKS

The model is a greatly enlarge representation of the human middle and inner ear. (Since the model does not deal with the sense of balance, the semi circular canals are not included.)

By turning a crank, you initiate a reciprocating flutter in the highly flexible tympanic membrane simulating the action of sound waves striking the eardrum. These vibrations are transmitted directly through the chain of three movable middle ear ossicles – the malleus, incus and stapes – to the oval window of the liquid-filled cochlea.

The pulsations of the oval window generate a series of compression waves within the liquid, causing the basilar membrane and its sensory hair cells to vibrate. For the sake of visibility, the cochlea is not coiled, but is represented by a straight, transparent plexiglass tube.

Just as with your own ears, high and low frequencies stimulate different groups of sensory hair cells.

NO EXTRAS TO BUY

Featuring a dual-position drive pulley for changing frequency ("pitch"), and twin-position eccentric cam for altering the strength of vibrations ("amplitude or volume"), the model is furnished complete with the following accessories: • Stand-up mirror which lets you readily observe all motions simultaneously • syringe for filling cochlea • full-color poster of internal ear anatomy • set of life-size auditory ear ossicles, plastic embedded and labeled • operating instructions.

AP40

B. Functioning Eye Model *features flexible lens which changes its shape to provide true-to-life performance*

Eyeball lengthens or shortens to demonstrate near- and far sightedness, as well as normal vision.

Your own eye focuses on near or distant objects by altering the thickness of its internal lens. This has been next to impossible to duplicate in a model – until now.

Simulating the visual performance of the human eye, you can control the shape of the flexible silicone elastomer lens within this ingenious model, changing the focus of images projected onto its retina. You can also lengthen or shorten the eyeball itself to demonstrate nearsightedness (myopia), farsightedness (hyperopia), and normal vision (emmetropia).

Vividly demonstrate: • accommodation (focusing on near objects by increasing lens curvature) • near-point of vision • yellow spot and blind-spot • presbyopia (age-related lack of accommodation due to loss of lens elasticity) • myopia • hyperopia (hypermetropia) •and use of corrective lenses.

Complete with detailed instruction manual, external corrective lenses – one convex and one concave, lens holder, and projection object on stand.

Two Sizes – Identical Functions – Your Choice

Jumbo Functioning Eye

For maximum visibility. 18x12 inches (450x300 mm)

AP41

Standard Functioning Eye

Ideal for small hands-on group study.

12x7 inches (320x180mm) overall

AP42

C. Functioning Pumping Heart *and Circulatory Schematic Rhythmic pumping action initiates pulsing "blood circulation"*

Ingeniously engineered, this fully-functional schematic replica portrays a frontally-sectioned human heart showing all four chambers, valves, and major vessels of the cardiovascular system.

More convincing than a computer simulation, the liquid-filled working model provides positive visual evidence of the double pump nature of the heart, the isolation of the pulmonary and systemic circulatory systems, and the directional flow of the blood stream.

Transparent plastic tubing comprising the pulmonary arteries and veins connects the heart to the lungs, completing the pulmonary circuit.

Additional tubing representing the aorta and vena cava connects the heart to a schematic capillary bed, illustrating the systemic circuit.

Vessels which transport "deoxygenated blood" are tinted bluish lending a darker hue to "blood" flowing through them than the brilliant red of the "oxygenated blood" vessels.

Grasping a rubber bulb in each hand and alternately squeezing them compresses the walls of the atria, then those of the ventricles, emptying the upper and lower chambers in turn.

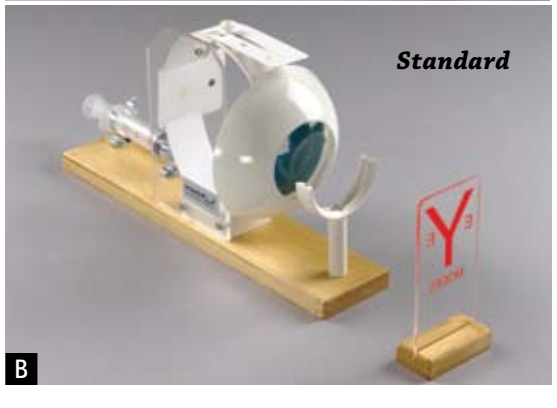
This pumping action results in the rhythmic pulsing circulation of the "blood" (colored water.)

Supplied complete with powdered food dye and plastic syringe for filling the system. Intentionally allowing some air bubbles to remain in the vessels greatly aids the observation of "blood" flow.

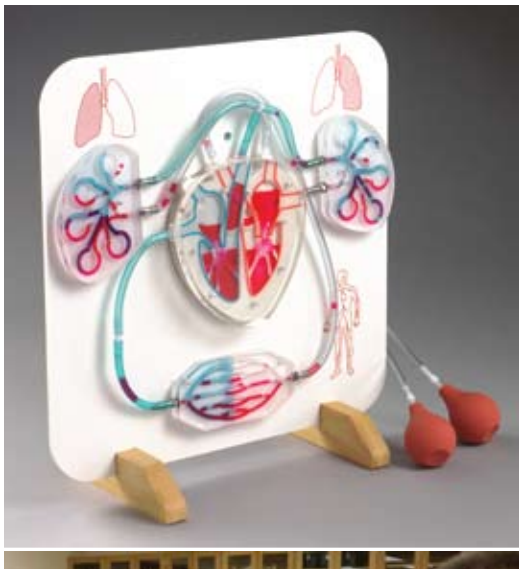
The model is mounted on a 14x15 inch (35x37 cm) formica-laminated base board with support legs.

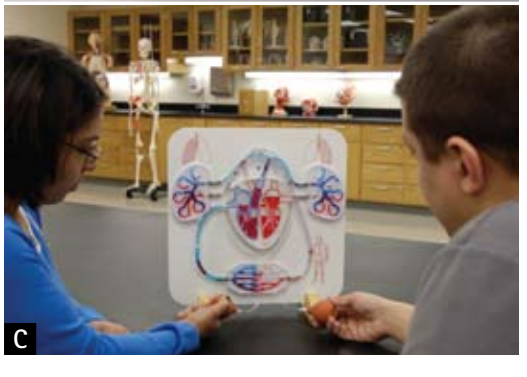
AP43

A



B




C

Enroll Plane Jane™ *in your class and say goodbye to student confusion over anatomical planes*

SAGITTAL

Sagittal plane with arm showing flexion/extension/ hyperextension

TRANSVERSE

Transverse plane with arm showing transverse flexion (horizontal adduction)

FRONTAL

Frontal plane with arm showing abduction/ adduction

Components stow in handy storage base

Original Plane Jane concept © Jennifer Bridges, Ph.D. Professor & Kinesiology Department Chair Human Performance Lab Coordinator, ACSM Certified Saginaw State University, University Center, Michigan 48710

DON'T MISS our Kinesiology Skeletons *featured on pages 2-3*

The concept of Cardinal Planes, which divide the human body into equal halves in three different directions, is used to define how the body moves through space. It also provides the basis for movement terminology such as "flexion and extension" at the body's joints.

Frequently taught in kinesiology, anatomy, biomechanics or related courses, the Cardinal Planes concept is difficult for many students to grasp. Textbook diagrams, severely limited by their two-dimensionality, often add to the confusion.

A three-dimensional working model is needed for the visual, kinesthetic/tactile learner.

Developed by a college professor, Plane Jane, in prototype form, has been successfully used in the classroom to teach the concept of Cardinal Planes to college-level students for more than 15 years. Students working with the Plane Jane model have found it to be extremely helpful to the learning process, and lots of fun as well.

Plane Jane is a fully three-dimensional one-quarter size human figure, standing in the "Anatomical Position," and exhibiting the three Cardinal Planes:

- Sagittal Plane — dividing the body into left and right halves
- Frontal or Coronal Plane — dividing the body into front and rear portions
- Transverse Plane — dividing the body into top (superior) and bottom (inferior) portions

Color-coded and detachable, each plane can be demonstrated independently, or in any combination with the other planes.

Jane also comes with a set of three interchangeable arms — each is color-coded to match one of the planes, and drilled to accommodate a plastic rod which represents the axis of rotation.

With the axis rod inserted through the arm and into the model, the arm will move parallel to its plane, defining movements within that plane.

A handy foam-lined storage compartment built into Jane's base — complete with hinged lid and magnetic closure — conveniently stows arms and axis rods.

Plane Jane's overall dimensions: 12Lx9Wx22H inches (30×23×56cm).

AN ADDED DIMENSION — AT NO EXTRA COST!

Accompanying each Plane Jane model is an easy-to-use companion CD-ROM. Its brief live-action video lectures, presented by Plane Jane's developer, employ Plane Jane in demonstrating the link between movement terminology and cardinal anatomy planes.

Learning is further reinforced through interactive quizzes, ready-to-print activity handouts (in PDF format), and a list of terms and related websites.

Plane Jane Complete Learning Package

Includes Plane Jane Model and Plane Jane CD-ROM.

PJ99

PJ99-CD Plane Jane CD only

The Thin Man™

Sequential Human Anatomy Figure

Lets you explore body regions layer-by-layer for in-depth understanding.

The Thin Man™ Sequential Human Anatomy Figure

Detailing human anatomy in a way no chart or torso can duplicate, the Thin Man is a near life-size full-color rendition of the human body which by means of a sequence of transparent mylar overlays, allows the peeling away of layer after layer of tissue, progressing ever more deeply into the body. This provides extremely valuable insight into the 3-dimensional spatial relationships of principal structures, major vessels and organ systems.

Displayed on the back side of the Thin Man is a full-figure view of the skeletal and nervous systems. Highlighted at each level of the sequential "dissection" are the following features:

1ST LAYER

Musculature of the head, neck, thorax and abdomen, (superficial muscles on the right side of the figure; deeper muscles and ribs on the left.) 30 structures keyed and labeled.

2ND LAYER

Brain, thyroid and salivary glands, eye, tongue, teeth, heart and major vessels, lungs, stomach, liver and intestines. 44 structures keyed and labeled.

3RD LAYER

Sinuses, nasal septum, tongue, trachea, heart chambers and vessels, pancreas, spleen, large intestine. 58 structures keyed and labeled.

4TH LAYER

Esophagus, pleura, aorta, inferior vena cava, intercostal vessels and nerves, autonomic nerve trunk, kidneys and adrenal glands. 27 structures keyed and labeled.

5TH LAYER (FULL FIGURE)

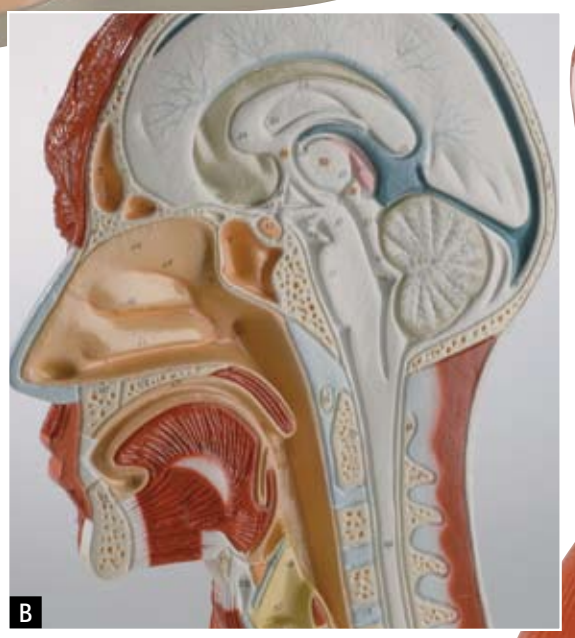
Brain, pharynx, vertebral column, rib cage, muscles of upper and lower extremities, pelvic organs and muscles. 77 structures keyed and labeled.

In all, well over 200 anatomical features are named, indexed, and keyed. Standing 63 inches (160 cm) tall, the Thin Man is mounted on a warp-proof composition board, and is supported by a tubular steel frame on a tip-proof four-legged stand.

TM70

Headliners

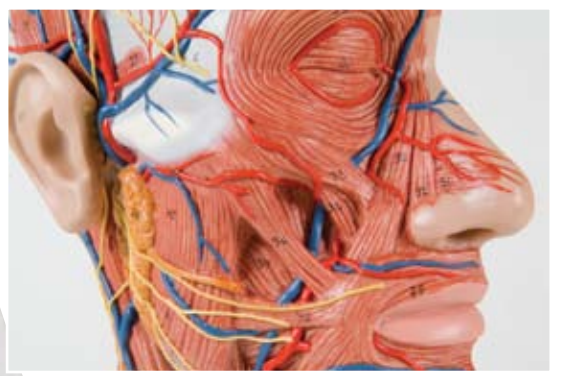
A



B

B

C



D

A. Five-Part Bisected Head

This life-size reproduction of the head and neck has been sectioned into halves near the median to display interior details of the brain, nose, mouth and throat, as well as exterior features of the head and skull.

The skin and muscles of the right half have been removed to expose the facial bones of the skull, sinuses, air cells of the ethmoid bone, parotid gland, and the eyeball in its bony orbit. To facilitate further study, the eyeball, tongue, and facial bone detach. 104 numbered features are identified in the corresponding key. Overall dimensions: 15×14×10 inches (38×36×25 cm).

A76 **$711.00**

B. Right Half of Head and Neck Musculature

This sagittally sectioned, unbreakable replica represents the human head and neck down to the level of the clavicle. Surface muscles and blood vessels are depicted on one side, while the other shows the median section through the interior. 119 features are numbered and identified in the corresponding key. Overall dimensions: 13×8×7 inches (33×20×18 cm).

A74 **$482.00**

C. External/Internal Head

Displaying superficial muscles, nerves and blood vessels of the right half of the human head, the model also exhibits internal structures of the head and neck as seen in medial sagittal section.

Life size, the model is mounted on a detachable square pedestal base.

Overall dimensions: 8¾×7×18 inches (22×18×46 cm)

A140 **$358.00**

D. Median Section through the Human Head

Depicting a midsagittal section through the human head and neck, this life size plastic replica is accented with contrasting colors to enhance perspective of the relationship of the brain and spinal cord to other key structures. The model is mounted on a plaque. Overall dimensions: 10¼×13×2 inches (26×33× 5 cm)

A412 **$110.00**

A. Motor Neuron Diorama

Magnified more than 2500 times and fully three-dimensional, a neuron model is depicted in its natural setting. With the membranous envelope cut away, the cytological ultrastructure, organelles and inclusions within the cell body are depicted in contrasting colors. A section of the axon lifts off to expose the enveloping myelin sheath and neuro-lemma, as well as the Schwann cell that formed them. Dendrites of the neuron extend into the background, and synaptic vesicles carrying neurotransmitters can be seen via a cutaway view. 54 features are identified in an illustrated key.

Mounted on a hardwood base, its overall dimensions are: 17×18×11 inches overall (43×20×28 cm).

A67 **$619.00**

B. Deluxe Spinal Cord

6 times life-size, this plastic model replicates a segment of the upper thoracic spinal cord. Sectioned both longitudinally and in cross section, a portion of white matter of the right half has been cut away to expose the anterior and posterior nerve roots. Color-coding differentiates them and a color-keyed circuitry schematic is mounted along with the model on a hardwood base. 30 numbered features are identified in a corresponding key.

Overall dimensions: 12×8×5 inches (30×20×13 cm).

A65 **$298.00**

C. Spinal Cord with Nerve Endings

Scaled to 5 times life size, this reproduction accurately depicts the anatomy of the human spinal cord including central channel, gray matter, surrounding white matter, spinal ganglia, spinal nerve roots with branches and the lagers of the spinal column.

Accompanying the model on the base are four color-coded cross sectional illustrations of the spinal cord from the cervical, thoracic, lumbar and sacral regions. Complete with illustrated manual.

Overall dimensions: 10¼×7½×5 inches (26×19×13 cm).

H41 **$193.00**

D. Cervical Vertebra with Spinal Cord

This single cervical vertebra is accompanied by a section of the spinal cord. Clearly shown are white and grey matters, anterior and posterior horns, and associated nerves. Displayed on base.

SA60 **$114.00**

E. Rat Brain

Ideal for comparative studies in psychology, neuroanatomy and comparative anatomy, this plastic reproduction depicts the brain of a rat scaled to six times natural size. A midsagittal section divides the brain, which can be disassembled into right and left halves.

The right half has been color coded as follows: cerebrum – pink, cerebellum – blue, and brain stem – yellow. The largely transparent left half provides a view into the lateral ventricle and hippocampus, both of which have been highlighted in contrasting colors.

The brain is supported in its natural position on a base, which also incorporates a life size cast of an actual rat brain, and a scaled down illustration of a midsagittal section through a human brain. Both employ the same color coding scheme utilized on the main model.

Overall dimensions: 5½×4×6¼ inches (14×10×16 cm).

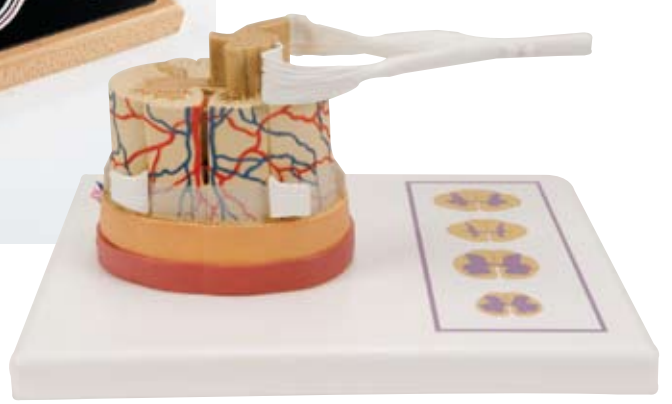
A429 **$192.00**

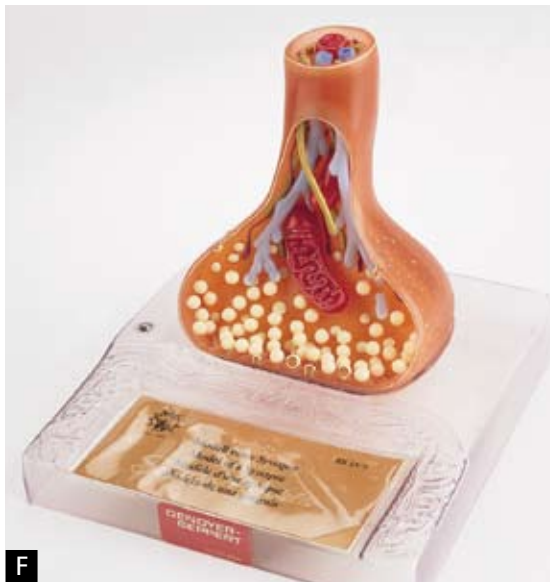
F. Nerve Synapse — Highly Magnified

Magnified many thousands of times, this depiction of a synapse is based upon electron microscopic interpretation. Sectioned open, the synaptic knob reveals its neurotubules, neurofilaments, synaptic vesicles, and the membranous ultrastructure of the postsynaptic apparatus.

Overall dimensions: 8×9×9 inches (20×22×22 cm).

318 **$499.00**





Giant

All beauty comes from
beautiful blood and a beautiful brain.
— Preface to Leaves of Grass,
Walt Whitman

A

To facilitate ease in observation of fine detail, Denoyer-Geppert Giant Brain models are scaled to twice normal life-size.

Yet despite their size, Denoyer-Geppert Giant Brains are safe for pass around — they are molded of non-breakable plastic, and because their detachable segments are secured with pins, they won't disassemble until pulled apart.

Giant Brains A70, A72 and A73 nest on special display bases which afford simultaneous observation of their superior, inferior and lateral aspects. Simply lift them off their bases for disassembly and hands-on study.

A

A

A. Giant 4-Part Brain
with reproducible copy masters*

Depicted in full relief and enhanced with hand-painted colors, this giant human brain replica initially divides into hemispheres. 73 neuroanatomical structures are hand coded on the left hemisphere, while 22 are coded on the right, which further divides in two. The right half of the brain stem and cerebellum then detach as a unit, revealing an additional 35 coded features.

In all, 130 features coded on the model are identified in the accompanying key, with all twelve cranial nerves itemized in standard Roman numeral notation. Overall dimensions: 8×8×10 inches (20×20×25cm).

A70

B

B

B. Giant Regional Brain
with reproducible copy masters*

Besides exhibiting some 120 numbered neurostructures, this giant brain replica incorporates nine vibrant colors to differentiate the frontal, parietal, occipital and temporal lobes, as well as the cerebellum, brain stem and the motor, somato sensory and limbic cortices. In addition, each of the lobes, the limbic cortex, pre- and post-central gyri is identified with hand lettering. Complete with key to numbered structures and reproducible copy masters, the model measures 8×8×10 inches (2×20×25cm) overall.

A73

B

Brains

C. Giant Functional-Center Brain

with reproducible copy masters*

Our most popular brain model reproduces the brain of a right-handed person, employing contrasting colors and hand-lettered captions to locate and identify motor and sensory functional centers. In addition to focusing on the intellectual role of the dominant left brain, and the creative role of the right, the model highlights the emotional, sexual, memory and learning functions of the limbic system.

Sensory regions and centers receptive to 20 specific body regions are distinguished, as are the motor centers controlling 19 body regions. More than 120 features, hand-numbered on the model, are identified in the corresponding key.

Overall dimensions: 8×8×10 inches (20×20×25cm).

A72

D. *SAVE $99 when you purchase our* Giant Brain Set

You get one each of Giant 4-Part Brain (A70), Giant Regional Brain (A73), and Giant Functional-Center Brain (A72), PLUS set of reproducible copy masters.

A70GBS

**Reproducible copy masters of the brain, meninges and ventricles are included with Giant Brain models A70, A72, A73 and Giant Brain Set A70GBS, allowing you to print illustrated study/quiz sheets. Answer keys are printed on the reverse.*

Get a FREE full-color Denoyer-Geppert Brain Anatomy Chart with any Giant Brain model featured on pages 80 & 81.

Available in two convenient sizes:

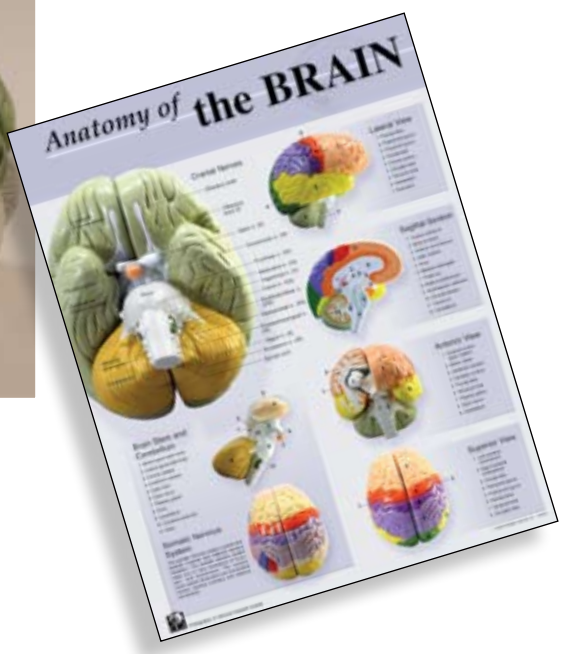
- **Poster Size** — 22×28 inches (56×71 cm). With metal grommets for hanging. Laminated — write on – wipe off with dry erase markers (not included)
- **Notebook Size** — 8½×11 inches (21.6.x28 cm). Three-hole punched for handy binder accessibility.

The perfect companions to reinforce learning with our Giant Brain models, since Denoyer-Geppert Giant Brain models were employed to create the charts.

A FREE notebook version chart will automatically be included with your order for any Giant Brain model featured on these two pages.

Of course, you can purchase charts as well. Here's how:

C7170 Poster Size Brain Anatomy Chart
C7170NB Notebook Size pack/10



A

B

D

C

D

C

A. Giant Brain, Student Edition

Cast from non-breakable plastic in the same molds as our other giant brains, this student rendition incorporates simplified numbering and a budget-stretching monochrome painting scheme.

Component parts are locked together with pins, and will stay together during pass-around until pulled apart.

Fifty principal features of the cerebral lobes, cerebellum, brain stem and ventricles are number-coded for identification in the accompanying 3 page key — perfect for introductory study. Supplied without a base. Overall dimensions: 8×8×9 inches (20×20×23 cm).

U85

B. *SAVE $98 when you purchase a class pack of* 4 Student Edition Giant Brains

U85CP

C. Deluxe 8-Part Life-Size Brain with Arteries

includes reproducible illustrated copy masters

Cast in non-breakable plastic, our deluxe Human Brain model incorporates the arterial blood supply complete with termini of the internal carotids, basilar artery, and Circle of Willis. Cranial nerves and a dissectible brain stem are featured as well.

The right hemisphere divides in two, while the left splits into four segments, including half of the brain stem and half of the cerebellum. Also detachable are the pituitary and the basilar artery.

Safe for pass-around — because all detachable components are secured with pins — the brain won't come apart until pulled apart.

Resting on its molded display base which permits simultaneous observation of its superior, inferior and lateral aspects, the brain simply lifts off its base for disassembly and hands-on study.

115 features, including the twelve cranial nerves, are numbered on the model and are identified in the accompany key. Overall dimensions: 6×5×7 inches (14×13×18 cm).

EXTRA VALUE FEATURE

Supplied with this model is a set of reproducible copy masters for producing illustrated study/quiz sheets with multiple views of the brain, its ventricles, meninges and sinuses. Drawings are numbered to correspond with the numbers on this model. Answer keys are printed on the reverse.

A77

D. Hands-On Pass-Around Brain *shows arterial blood supply and divides into 8 parts*

Steel pins keep this model's 8 parts together during pass-around, yet allow quick disassembly as well facilitating hands-on study. Components include: the large basilar artery, the pituitary, the right hemisphere which divides in two, and the left which splits in four, including half the cerebellum and half of the brain stem.

Resting on a molded display base which permits simultaneous viewing of the brain's superior, inferior and lateral aspects, the non-breakable model introduces 100 hand numbered features which are identified in the accompanying key. Overall dimensions: 6×5×7 inches (14×13×18 cm).

U91

FREE GIFTS when you order — see back cover. No Surprises!

Like the wheel of a cart is the mind
of a fool; his thoughts revolve in circles.
— Sirach (Ecclesiasticus)
33:5 NAB

E. *NEW!* Life-size 2-part Brain

Dividing into hemispheres along the midsagittal plane, these life-size Autographed Anatomy ™ models embody all salient structures of the human cerebral cortex, cerebellum and brain stem, including the origins of the twelve cranial nerves. Some 50 features are numbered for identification in the accompanying key.

AB70

F. *NEW!* Life-size 2-part Regional Brain

Incorporating all the features above, plus: vibrant contrasting colors differentiate, and with hand lettering, identify the various lobes of the cerebral cortex, as well as the motar somatosensary and limbic cortices, cerebellum and brain stem.

AB73

G. Deluxe Classic Brain with Arteries, 9-part

Medially divided, the brain is represented with arteries, and the basilar artery is removable. Both halves can be disassembled into: frontal with parietal lobes • temporal with occipital lobes • half of brain stem • half of cerebellum. Sits on removable base.

5½×6¼×5½ inches (14×16×14 cm).

A420

H. Classic Brain, 5-part

Cast from an actual human brain and midsagittally sectioned, the left half can be disassembled into the frontal and parietal lobe, the temporal and occipital lobe, the encephalic trunk, and the cerebellum. Sits on removable base. 5×5½×7 inches (13×14×17.5 cm).

A418

I. Human Brain Study Set

Cast from an actual human brain, this soft plastic rendition has the look, feel and weight of the real thing. Dividing into hemispheres, the model is studied in conjunction with a set of blackline copy masters that illustrate the brain as observed from the medial, lateral and inferior aspects. 84 structures are number-coded in the copy masters and are identified in a separate key, making them ideal for quiz purposes or individual study.

A71

J. *NEW!* Budget two-part color-coded Regional Brain

Distinctive color coding distinguishes the following regions of this human brain replica: • frontal lobe • parietal lobes • occipital lobe • temporal lobes • motor cortex • somatosensory cortex • limbic cortex • cerebellum • and brain stem. Nesting upright in a form-fitting molded base, the brain lifts out and divides in two along the median sagittal plane.

6¼×7¾×5½ inches (16×20×14 cm) overall.

A616-1

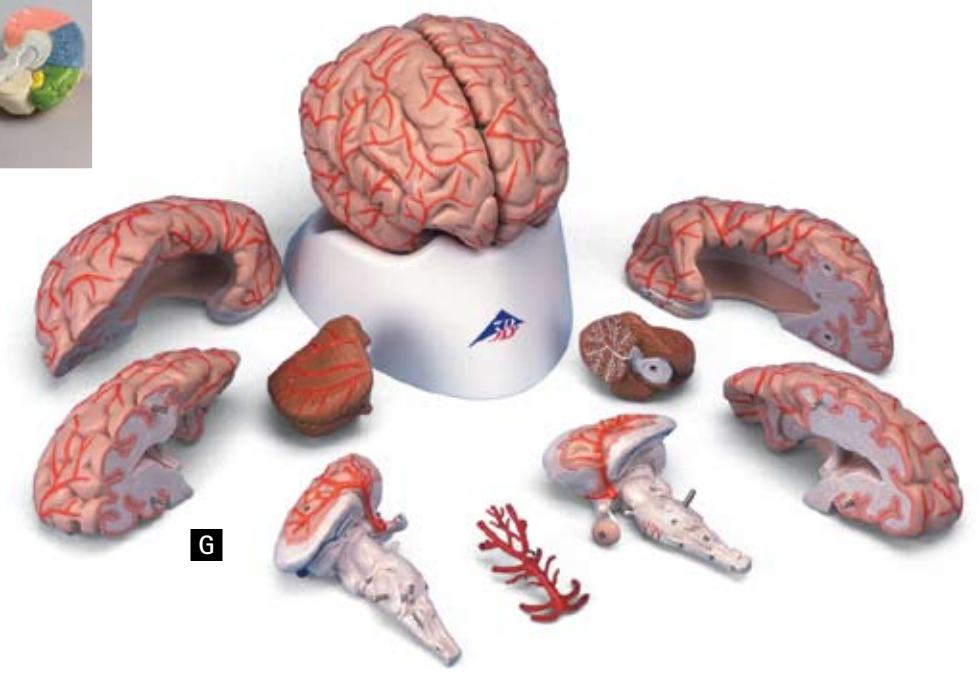
K. *NEW!* Budget two-part Brain with Arteries

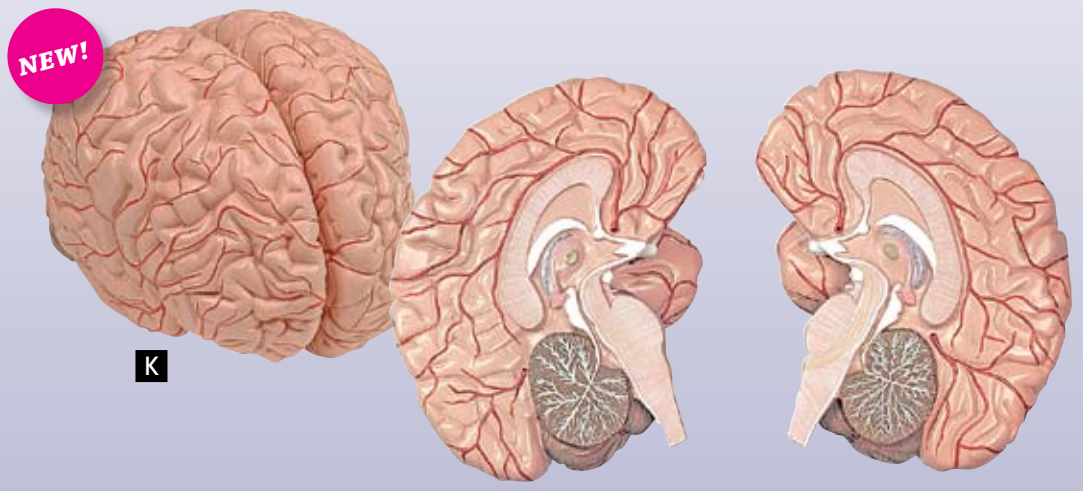
Divided into hemispheres along the median sagittal plane, this life-size replica depicts the left and right cerebrum, cerebellum, brain stem, medulla and blood vessels. Affordable too. You'll want to place several around the lab for hands on study by small groups.

The brain rests in a molded base. Overall dimensions: 6¼×7¾×5½ inches (16×20×14 cm).

A616

AB70 & AB73 fit perfectly in our Premier Skulls, featured on pages 26-28





Neuroanat*in depth*

A

B

C

D

A. Base of Head with 7-Part Brain

Portraying the base of the human head, this life-size non-breakable replica features a detailed brain, complete with arterial blood vessels, including the basilar artery and Circle of Willis, cranial nerves, and dissectible brain stem.

The entire brain can be lifted from the cranial vault and separated in seven parts. The right cerebral hemisphere divides along its length following the border of the corpus callosum, while the left can be split to expose the posterior horn of the lateral ventricle and hippocampus. Dissections of the cranial floor expose the eyeball, its muscles, lacrimal gland, optic nerve, and the middle and inner ear. 107 hand numbered features are identified in the accompanying key.

Overall dimensions: 8×9×6 inches (17×22×15cm).

A75

B. Classic Neuro-Anatomical Brain, 8-part

Divided into hemispheres along the medial sagittal plane, this life-size reproduction displays color-coded cerebral lobes on the right half, while on the left it highlights motor and sensory centers including: • pre-and post central gyri • Broca and Wernicke speech centers • Heschl's gyrus • cranial nerves • ventricles.

Each half can be divided into 4 pieces as follows: • frontal and parietal lobe • temporal and occipital lobe • half of brain stem • half of cerebellum.

A molded plastic base supports the model in an upright position. 5½×5½×6¾ inches (14×14×17.5 cm) overall.

A422

C. Human Brain with arteries resting in base of head

Horizontally sectioned with cranium removed, this life-size model depicts the base of the head in which the brain rests in situ, to facilitate study of the brain's orientation within the skull.

Complete with arterial blood supply including a detachable basilar artery, the brain lifts out and divides along the medial sagittal plane. Each half further divides into the following segments: • frontal and parietal lobe • temporal and occipital lobe • brain stem • cerebellum.

The model measures 6×6×9 inches (15×15×23cm) overall.

A525

D. Giant Brain, 14-Part

Our largest brain model, this giant replica is 2.5 times life-size, and ideal for hands-on study in large groups. Highly detailed, all the brain's structures and the ventricles are visible through the median, frontal and horizontal sections. Sits on removable base.

A409

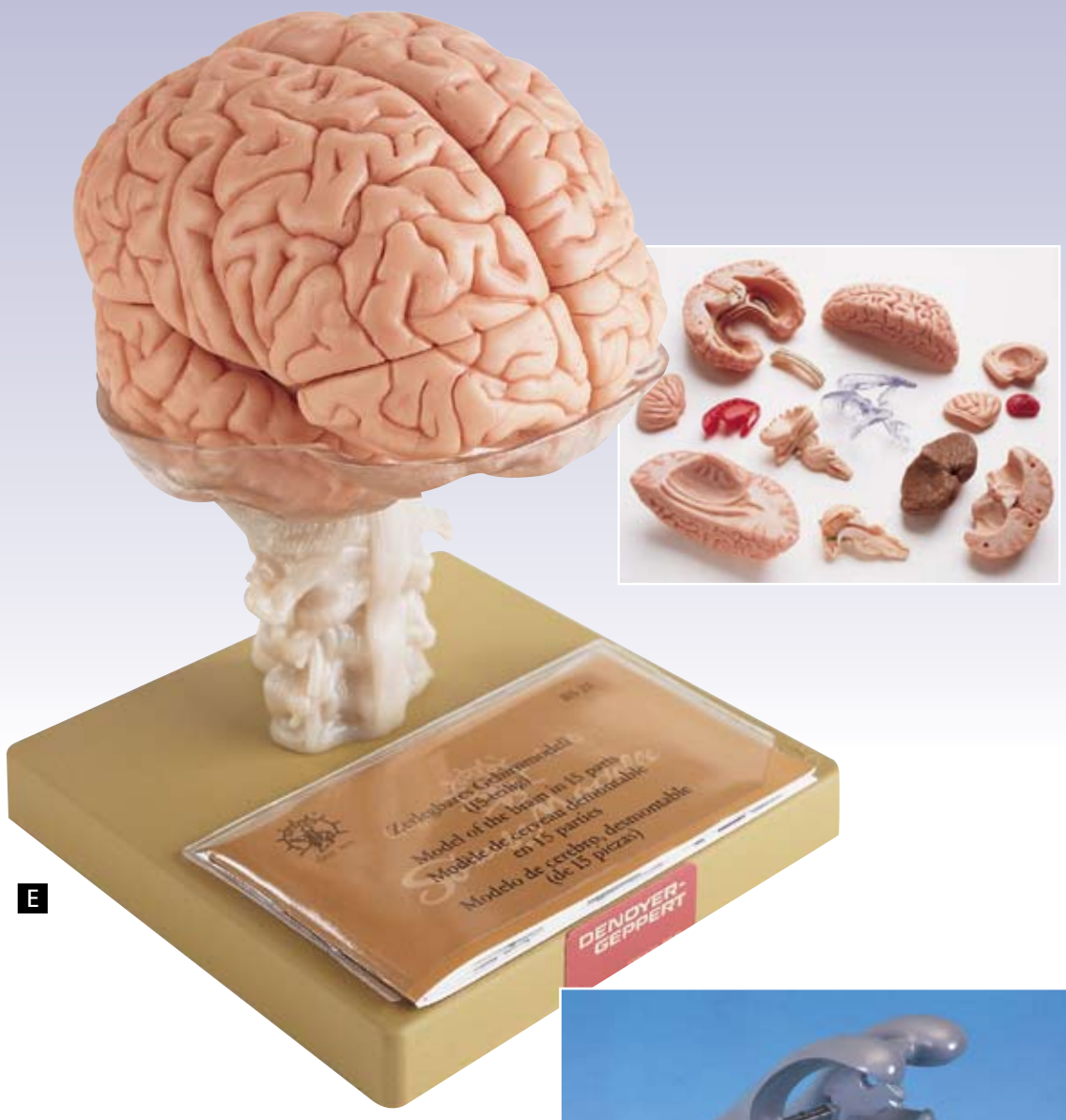
omy

E. 15-Part Brain with Ventricles

Ideal for studying the complex three-dimensional structures of the cerebral cortex. brain stem and ventricles, this life-size unbreakable model of the human brain can be disassembled into 15 component parts working from the outside inward.

During reassembly, the large subcortical nuclei of the brain stem (caudate nucleus, lenticular nucleus, and thalamus) and the internal capsule can be grouped around the ventricles to form the complete brain stem. Next, the fornix and hippocampal formation can be added, along with the adjacent portions of the temporal and occipital lobes, as well as the cerebellum. Finally, the corpus callosum and cerebral cortex can be attached to complete the brain, which then rests in its natural position on the base of the skull.

A66



E

F. Brain Ventricles — *life-size*

This life-size model clearly represents both lateral ventricles, the 3rd and 4th ventricle, and the sylvian aqueduct. Displayed on stand. 5½×4¼×5½ inches (14×11×14 cm).

A410

H. Sagittal Brain Section

Sectioned through the right side of the brain and base of the skull, this enlarged section is also double-sided. One surface conforms to the median plane and includes a section of the falx cerebri. The reverse surface depicts a sagittal cut which exposes the lateral ventricle.

49 color-coded features of the brain and meninges are identified in the accompanying key. The model rests on a detachable stand.

Overall dimensions: 10×7×5 inches (25×18×12 cm).

A79

I. Cerebro-spinal Fluid Circulation Model

Sectioned through the right side of the brain and base of the skull, this enlarged double-sided section shows the cut meningeal edges. Color-coding illustrates the regions within and surrounding the brain that contain cerebrospinal fluid, and arrows indicate the direction in which the fluid flows.

Hand-painted in contrasting colors, the model sits on a detachable stand and includes key card. Overall dimensions: 10×7×5 inches (25×18×12 cm).

A78

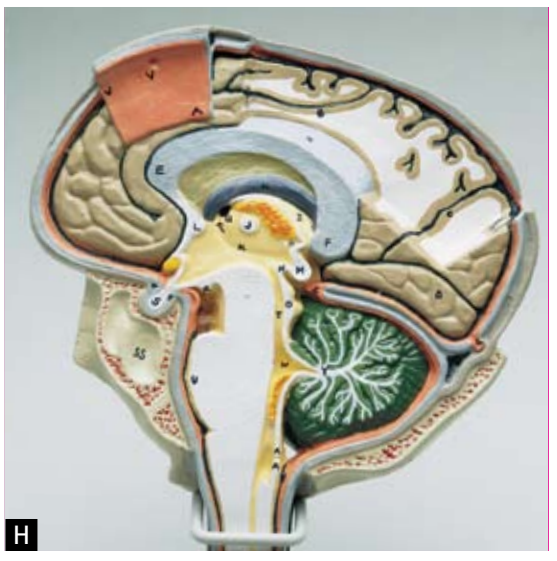
Save 10% When You Purchase Both Brain Sections As a Set!

Purchase our Sagittal Brain Section and our Cerebro-spinal Fluid Circulation Model at the same time and SAVE 10%. Includes A78 and A79.

Brain Section Set

A78-9

F



H

I

Get a FREE full-color Denoyer-Geppert Eye Anatomy Chart with either Giant Eye Model featured on this page

Available in two convenient sizes:

- Poster Size — 22×28 inches (56×71 cm), with metal grommets for hanging. Laminated — write on-wipe off with dry erase markers (not included).
- Notebook Size — 8½×11 inches (21.5×28 cm). Three-hole punched for handy binder accessibility.

Perfectly suited to reinforce learning with our Giant Eye models, since Denoyer-Geppert Giant Eye models were utilized in creating the charts.

A ***FREE*** Notebook size chart will automatically be included with your purchase of either Giant Eye models on this page.

Of course, you can purchase charts separately as well. Here's how:

C7102 Poster size Eye Anatomy Chart
C7102NB Notebook, pack/10

It's easy to see the value in our Autographed Anatomy™ Eye Models

A. Giant Five-Part Eyeball *features Lucite lens which inverts images*

6 times life-size, this unbreakable plastic replica is packed with useful teaching features. On the exterior of the eyeball is the cornea, through which the iris and pupil are visible, the large lacrimal (tear) gland, attachments for all six muscles that move the eyeball, the optic nerve, and surrounding blood vessels. The eyeball divides in half to study the interior. The iris/cornea can be removed as can the functional Lucite lens, which magnifies and forms inverted images. The transparent vitreous body exposes the choroid coat and retina. Rods, cones, and other retinal microstructures are detailed in a highly magnified diagrammatic cross section. 42 hand-coded features are identified in the corresponding key.

Mounted on a hardwood base, the model measures 6×6×6 inches (15×15×15 cm).

A22

B. Giant Eye in Bony Orbit

6 times life-size (twice the size of competitors' models) and dissectible into eight parts, this unbreakable eyeball sits in its bony socket to provide a better understanding of its relationship with major blood vessels, muscles and nerves. All six muscles of movement can be seen and the upper half of the eyeball with its lacrimal (tear) gland lifts off. Present and extractable are the superior and lateral rectus muscles, the iris and cornea, which can be removed as a unit, the Lucite lens, which actually magnifies and inverts images, and the transparent vitreous body, which exposes the fovea centralis on the retina. The choroid coat, retina, and optic disk can also be seen, as well as a schematic cross section through retinal layers. 77 hand-numbered features are identified in the accompanying key. Also included is a reproducible black line copy master with numbered parts that correspond with the model, making it easy to print illustrated study sheets. Answer key is on reverse. Overall dimensions: 12×10×9 inches (30×25×23 cm).

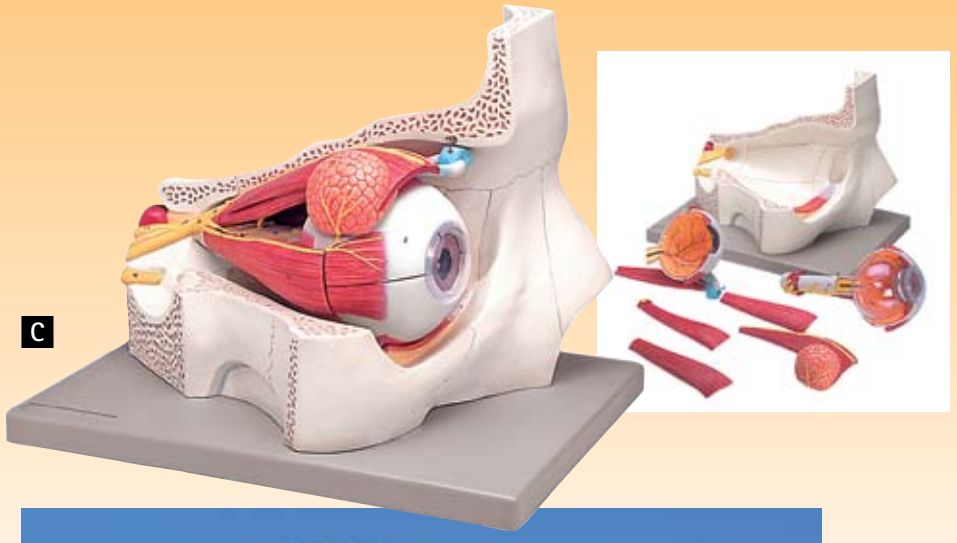
A28

C. Budget Eye in orbit separates into eleven parts — 5 times life size

Resting in situ in its bony orbit, this magnified replica of the human eyeball is complete with extraocular muscles, lacrimal gland, and optic nerves. For in-depth study, the model "dissects" into eleven parts, including both halves of the eyeball, cornea, iris, lens, vitreous body, and extraocular muscles.

The model is mounted on a rectangular base, and measures 16½× 11¾×12½ inches overall (42×30×31 cm).

A603



D. Classic Eye, 3 times life-size, 6-Part

This model is dissectible into the following parts: both halves of sclera with cornea and eye muscle attachments • both halves of choroids with iris and retina • lens • vitreous humour. Displayed on stand. 3½×3 ½×6 inches (9×9×15cm).

A150

E. Classic Eye in Orbit, 3 times life-size, 7-Part

Similar to the model above (A150), this replica also features the optic nerve in its natural position in the eye's bony orbit (floor and medial wall). Displayed on base. 7×10¼×7½ inches (18×26×19 cm).

A130

F. Giant Classic Eye, 5 times life-size, 6-Part

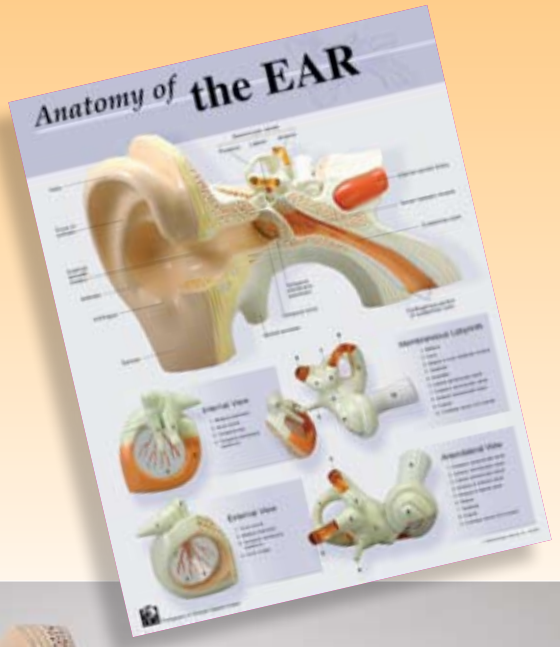
Ideal for hands-on study, the removable parts of this large-scale model include: upper half of the sclera with cornea and eye muscle attachments • both halves of choroids with iris and retina • lens • vitreous humour. Displayed on stand. 5×5½×8¼ inches (13×14×21 cm)

A100

G. Giant Classic Eye with Eyelid and Lacrimal System, 8-Part

Five times life-size, this model includes all the features of the Giant Eye (A100) above, plus the eyelid and lacrimal system. Displayed on base of bony orbit. 7¾×7×8¼ inches (20×18×21 cm)

A120



Get a FREE full-color Denoyer-Geppert Ear Anatomy Chart with either Giant Ear Model featured on this page

Available in two convenient sizes:

- Poster Size — 22×28 inches (56×71 cm), with metal grommets for hanging. Laminated — write on-wipe off with dry erase markers (not included).
- Notebook Size — 8½×11 inches (21.5×28 cm). Three-hole punched for handy binder accessibility.

Perfectly suited to reinforce learning with our Giant Ear models, since Denoyer-Geppert Giant Ear models were employed in creating the charts.

A ***FREE*** Notebook size chart will automatically be included with your purchase of either Giant Ear models on this page.

Of course, you can purchase charts separately as well. Here's how:

C7133 Poster size Ear Anatomy Chart
C7133NB Notebook size, pack/10

A. Giant Three-Part Ear dwarfs ordinary ear models — and demonstrates equilibrium with liquid-filled canals

5 times life-size, this unbreakable polymer reproduction depicts the human organ of hearing and balance. Sagittally sectioned along the length of the auditory canal and Eustachian tube, it is easy to trace the path of sound waves entering the ear, and it becomes clear how pressure is equalized on both sides of the eardrum. The entire middle ear chamber and the labyrinth is exposed to view. The malleus (hammer) and incus (anvil), and the attached see-through tympanic membrane lift out, as well as the entire labyrinth unit, for hands-on study. Two of the three semicircular canals are made of transparent tubing filled with colored fluid representing the endolymph. An air bubble in each will shift position when tilted, demonstrating the function of the canals in maintaining equilibrium. A spiral cutaway of the cochlea shows its three canals in contrasting colors to teach the concept of pitch. 36 hand-numbered features are identified in the accompanying key. Overall dimensions: 16×11×7 inches (41×28×18 cm).

A33

B. Deluxe Eight-Part Ear

5 times life-size in unbreakable plastic, our most detailed ear model provides a more complete perspective of the middle and inner ear structures within the temporal bone.

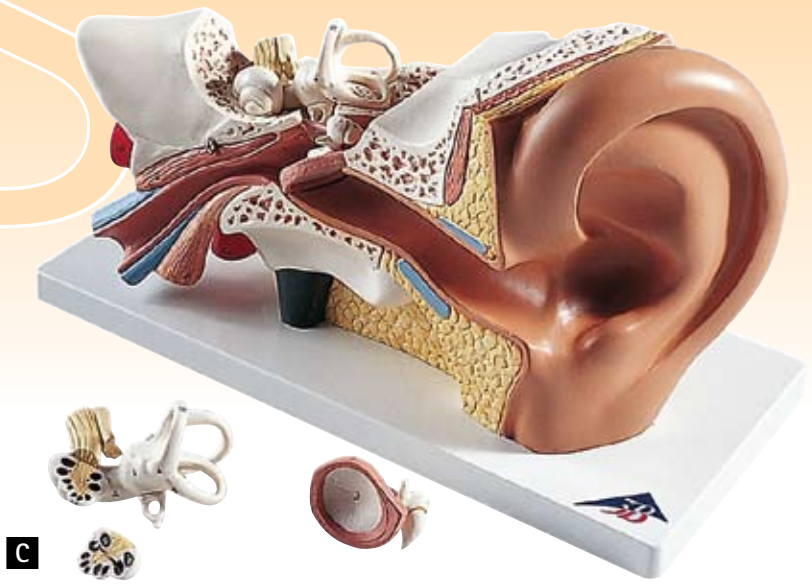
All the skin has been peeled off the detachable auricle to expose its cartilaginous structure, muscles, auricular arteries and nerves, as well as the entrance to the auditory canal. Sections of the petrous and mastoid portions of the temporal bone can be lifted off to expose the middle and inner ear chambers. The tympanic ring with its see-through tympanic membrane and attached ossicles can also be lifted out.

The extractable labyrinth is dissectible into three portions. Half of it, consisting of the semicircular canals and vestibule, demonstrates the sense of balance. Transparent tubing with colored liquid represents two of the semicircular canals. An air bubble in each will move when tipped, demonstrating the canals' function in equilibrium. The other half of the labyrinth, upon removal, shows the vestibular and cochlear nerves, which join to form the auditory nerve. The cochlea itself separates into halves to reveal cochlear, vestibular and tympanic ducts and the branching of the cochlear nerve.

95 hand-numbered features are identified in the corresponding key. Overall dimensions: 17×11×8 inches (43×28×20 cm).

A34

ars



C

C. Classic Ear, 4-Part

Approximately 3 times life-size, this model replicates the outer, middle, and inner ear. The eardrum with hammer, anvil and stirrup, as well as the two-part labyrinth with cochlea and auditory/balance nerve are all removable. Mounted on base. 13¼×6¼×7½ inches (34×16×19 cm).

A310

D. Advanced Classic Ear, 6-Part

Three times life-size, this model contains all the features of the Classic Ear (A310) above, with the addition of two removable bone sections to close the middle and inner ear. Mounted on base. 13¼×6¼×7½ inches (34×16×19 cm).

A311

D

E. Budget 3-part Ear

3 times life size

Sectioned so as to reveal the interior of the external ear canal, middle ear chamber, inner ear and Eustachian tube, the model has the following detachable parts: • eardrum with malleus, incus and stapes (hammer, anvil and stirrup) • cohlea and labyrinth with vestibular and cochlear nerves.

Mounted on a rectangular base, the model measures 13×9×8¼ inches overall (33×23×21 cm).

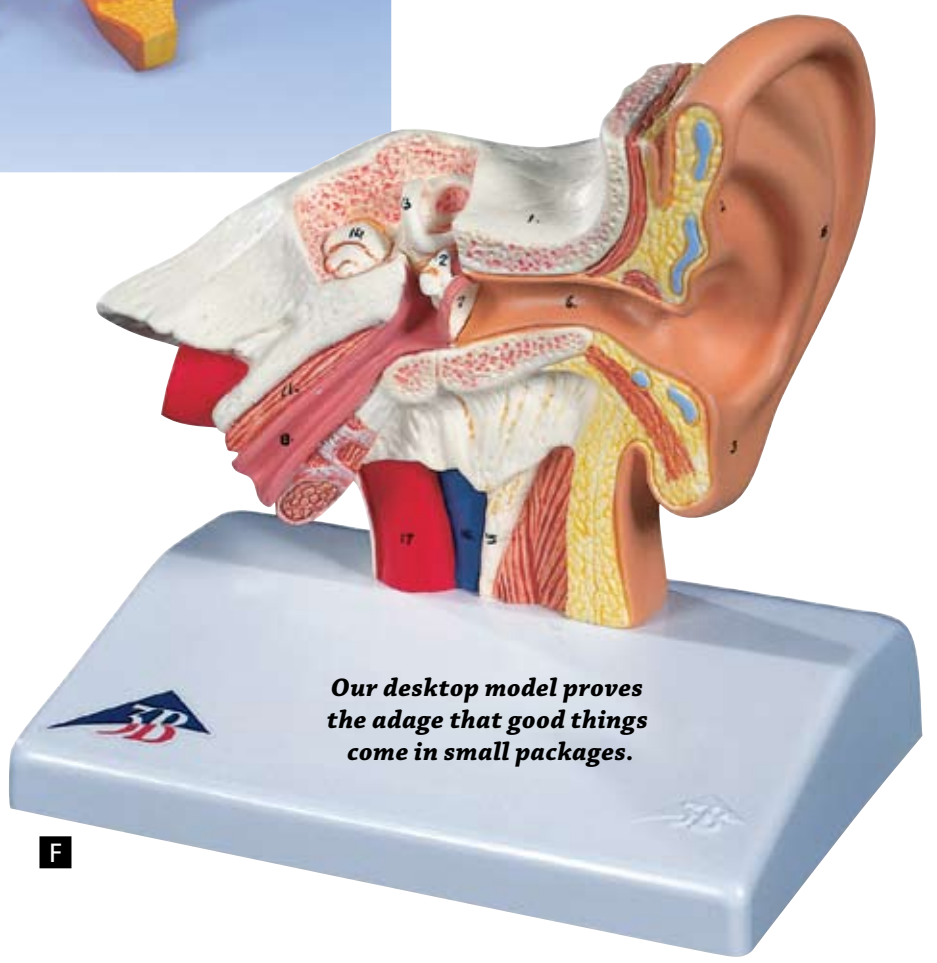
A622

F. Classic Desktop Ear, 1.5 times life-size

This economical but quality model illustrates the outer, middle and inner ear. Mounted on base. 5½×4×5¾ inches (14×10×14.7 cm).

A312

E



F

Discover why the **Heart of America**™ *is the most widely used heart model in the world!*

- ***Twice the size of a human adult heart to show detail and facilitate study***
- ***Three hinged portals allow full access to heart chambers and valves***
- ***Attached portions of trachea and esophagus demonstrate their relationship to major vessels***
- ***Unbreakable model fully rotates on wooden pedestal, or lifts off for pass-around viewing***
- ***100% American Made — authentic hand-painted detail is proudly signed and dated by its crafter — Autographed Anatomy™ exclusive to Denoyer-Geppert***

A. The Original Heart of America

Boasting no less than 63 cardiac structures, all number-coded and identified in a corresponding key, this lifelike model is renowned for its anatomical detail. Overall dimensions on base: 7×7×15 inches (18×18×38 cm).

A40

B. The Heart of America PLUS

Possessing all the exclusive features of the Original Heart of America ... PLUS an accurately scaled brachiocephalic trunk, left common carotid and left subclavian artery, complete with right and left internal thoracic (internal mammary) arteries, PLUS attachable/detachable bypass vessels of flexible tubing in a variety of lengths.

Simply attach tubing with build-in quick connects to model to configure single, double, triple, LIMA or bilateral IMA bypass grafts. Unlike our competition who require a separate model for each configuration, the Heart of America PLUS does it all ... at one low price! Overall dimensions on base: 7×7×17 inches (18×18×43 cm)

A49

Get a FREE full-color Denoyer-Geppert Heart Anatomy Chart with either Heart of America model featured on this page

Available in two convenient sizes:

Poster Size: 22×28 inches (56×71 cm) with metal grommets for hanging. Laminated write on – wipe off with dry erase markers (not included)

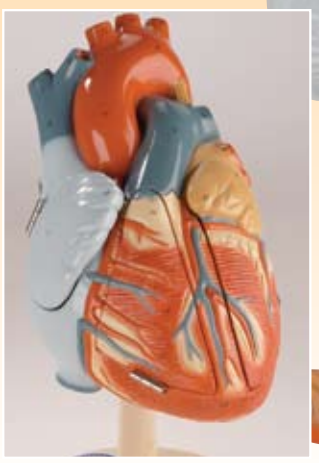
Notebook Size: 8½×11 inches (21.5×28 cm) three-hole punched for handy binder accessibility.

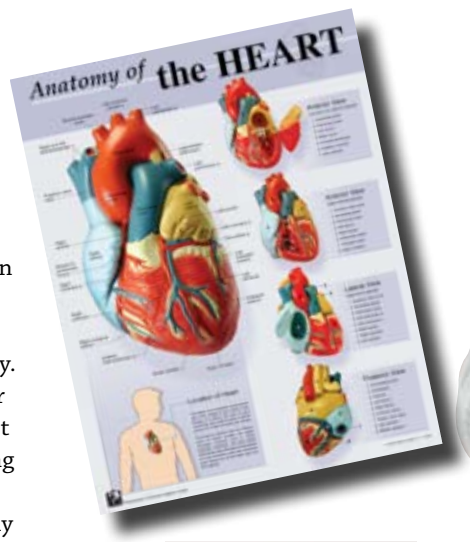
Perfectly suited to reinforce learning with our Heart of America models, since Denoyer-Geppert Heart of America models were utilized in creating the charts.

A FREE Notebook size chart will automatically be included with your purchase of either Heart of America model featured on this page.

Of course you can purchase charts separately as well. Here's how:

C7140 Poster Size Heart Anatomy Chart
C7140NB Notebook Size, pack/10





earts

"Take thy beak from out my heart,
and take thy form from off my door!"
Quoth the Raven "Nevermore."
— The Raven
Edgar Allan Poe

C

D

C. The Heart of America — Student Version

Derived from the same mold as our Original Heart of America, this more simplified reproduction is perfect for introductory study. A 7-page study guide explains the physiological function of each of the 39 features number-coded on the model. Overall dimensions on base: 7×7×15 inches (18×18×38 cm).
U81

D. The Heart of Texas™ — *it's Texas-size!*

Poised in its correct anatomical position, this realistic hand-painted model is prepared from an original sculpture by Texan medical artist D.J. Saunders. Three times life-size, with four hinged doors providing access to the heart chambers, it stands 17 inches tall on a heavy pedestal where it can be fully rotated or removed for pass around viewing. Blood flow to and from heart is clearly indicated with color-coded arrows. 108 features are numbered and identified in a corresponding 24-page manual. Overall dimensions: 11½×9×16½ inches (29×23×42 cm).
A46

E. MICROanatomy™ of Artery and Vein

Illustrating the reciprocal anatomical relationship between the artery and vein, as well as the basic functions of the venous valves, this model, magnified 14 times, contains a medium-size muscular artery with two adjacent veins from the antebrachial area, along with adjoining fat tissue and muscle.

The left vein and middle artery lie in the upper anterior segment to show the layers of the wall structure from cross and longitudinal sections, as well as from a top view. The right vein is opened in the anterior segment to reveal the orifice of the feeder vein and two venous valves. The back of the model has a relief of two veins, and depicts the venous valves' functions. 10 ¼×7 ½×7 ¼ inches (26×19×18.5 cm).
H420

F. Atherosclerosis Model with Cross Section of Artery

This model provides an excellent visual explanation of the changes in blood vessels due to arteriosclerosis. It contains a horizontally dissected artery fork with arteriosclerotic changes in four different stages, ranging from slightly sedimented to a completely clogged vessel.
H400

E

F

Heart M

A

B

C

A. E.P. Heart *for practicing catheter and lead placement*

Four hinged doors lead to the heart chambers of this twice life-size model, complete with a display stand. Additional openings which allow for catheter and lead placement, include: brachiocephalic vein, left subclavian vein, superior vena cava, aorta, aortic valve, inferior vena cava, orifice of the coronary sinus, and atrial septal defect. Actual pacing leads can be positioned in the right atrial appendage, right ventricle orifice of the coronary sinus, through the ASD, and in the left ventricle. 60 coded structures are identified in the 8 page instructional guide. Overall dimensions: 8×7×12½ inches (20×18×32 cm). Catheter is not supplied.

A445

B. The Helicalheart™

For over 500 years, the heart was thought to have a helical structure. However, it was not until Dr. F. Torrent-Guasp used hand dissection to successfully unwind the rope-like "Gordian Knot" that defining the structure in this configuration has been possible. Scrolling it back into this helical arrangement illustrates a transverse basal loop and an oblique apical loop with a "figure-8" shape that forms a helix with a conical apex. The helical shape enables the twisting and untwisting of the heart muscles, which allows for blood ejection, and suction for cardiac filling for the next heart beat.

The power and strength of the heart lies in its simplicity of shape. This simplicity is disrupted when the conical heart becomes spherical, and thus can no longer effectively wind and unwind. This disruption causes the enlarged heart of patients with congestive heart failure, the world's leading cause of death.

This revolutionary discovery in cardiac anatomy is illustrated through the HelicalHeart model. Life-size, it can be unfolded and refolded in order to demonstrate the origin and end of the human heart muscle.

A448

Helical Heart DVD (not pictured)

The history and evolution of this finding is explored in detail. 2002. 36 min.

DVD448

C. Heart with Major Blood Vessels

Vividly colored, this enlarged model of the heart and major blood vessels is made from a flexible material with openings to represent the ventricles and atria. The anterior wall is removable to expose the pumping chambers. In addition to the aortic arch, the brachiocephalic trunk, superior vena cava, pulmonary valve, subclavian, and common carotid can be seen. Displayed on stand. 10×4¼×5 inches (25×11×13 cm) overall

A642

models

— the Lord god formed man out of the clay of the ground and blew into his nostrils the breath of life, and so man became a living being.

Genesis 2:7 NAB

D. Giant Heart with Pericardium and Diaphragm

Its large size making it ideal for group study, this heart separates into two parts, making it easy to trace blood flow through the chambers, valves and vessels. 59 features are number coded and identified in an accompanying key including: the coronary arteries, circumflex artery, coronary veins and coronary sinus, segments of the esophagus and trachea, lower portion of the pericardium, diaphragm section, flexible tricuspid valve, pulmonary valve, mitral valve and aortic valve. Overall dimensions: 7×5×10 inches (17×13×25 cm).

A41

E. Heart with Esophagus and Trachea, 2 times life-size, 5-Part

This giant heart model has exceptional hand-detailing and is perfect for study in large groups. The ventricles, atria, valves, veins, and aorta are precisely shown, and the front heart wall is removable to reveal the inner valves and chambers. In addition, the upper section of the esophagus is represented, along with the upper bronchus and the ascending aorta. Includes removable base and product manual. 12½×7×7 inches (32×18×18 cm).

A313

F. Non-breakable Life-Size Heart

Available with or without detachable/reattachable coronary bypass grafts, this resilient heart divides into anterior and posterior sections to access its pumping chambers and valves.

Vibrant hand-painted colors permanently bond with the model, and are guaranteed not to chip, crack, fade, peel or transfer. Vessels are color-coded red or blue to indicate whether they carry oxygenated or deoxygenated blood.

Significant cardiac features, 33 in all, are hand-numbered on the model for identification in the accompanying key.

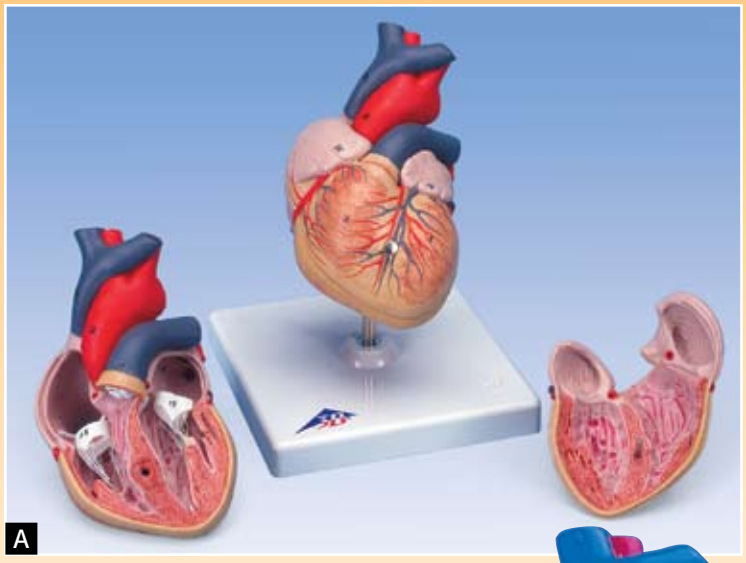
Nesting on a form-fitting display base, the heart lifts off for hands-on observation and study. Overall dimensions: 4×4×6 inches (11×11×15cm).

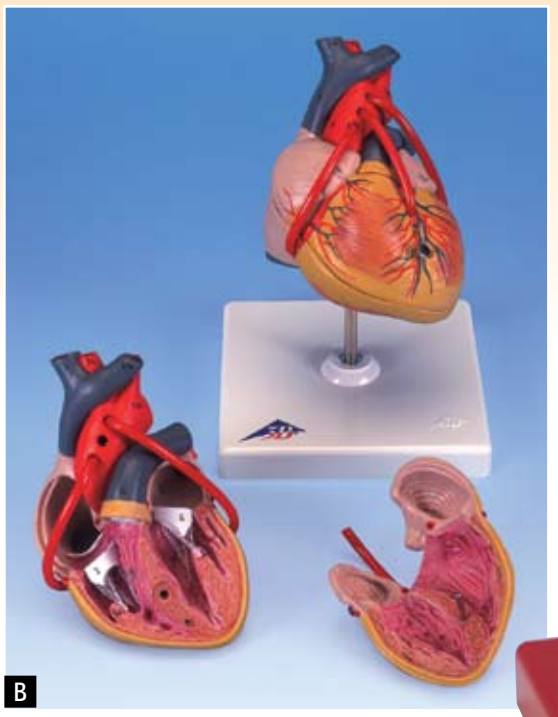
A45

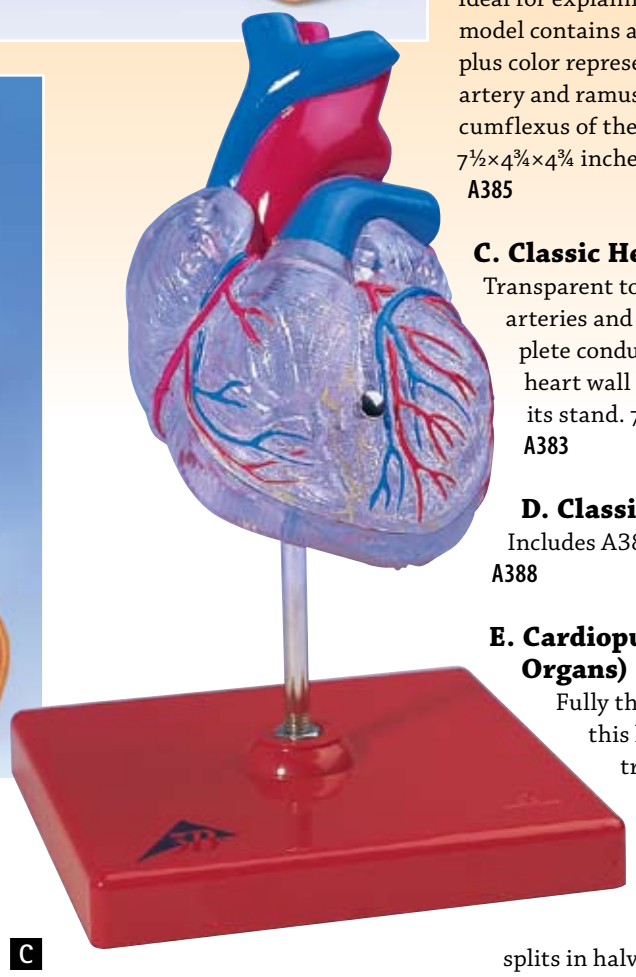
G. Coronary Bypass Edition

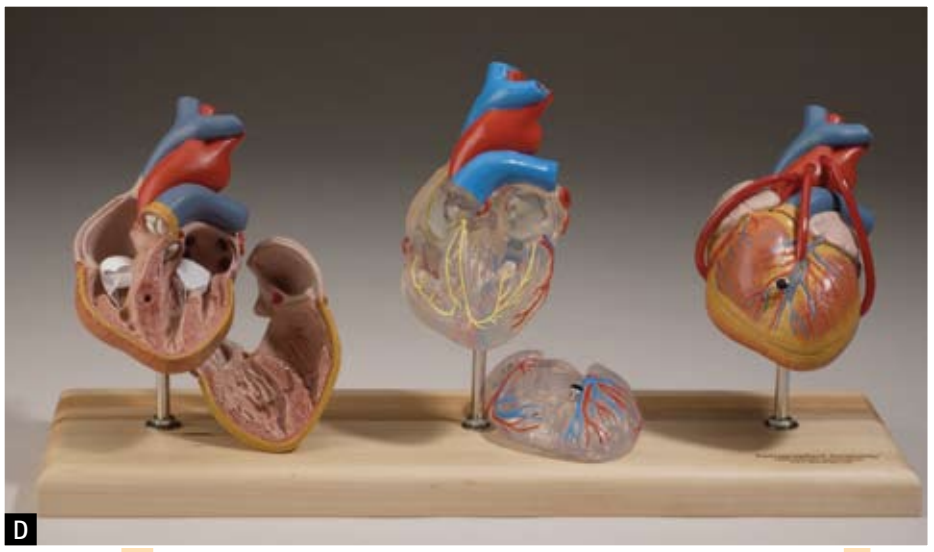
Like A45 Standard Edition, but fitted with detachable/re-attachable bypass vessels for demonstrating single, double, and triple coronary bypass grafts, as well as normal heart without bypasses.

A47


A


B


C


D

A. Classic Heart, Student Size, three-quarters life-size, 2-Part

Economically priced, this heart replica shows the ventricles, atria, veins and aorta in precise detail. The front heart wall is detachable to reveal its inner valves and chambers. Displayed on stand.
7½×4¾×4¾ inches (19×12×12 cm).
A380

B. Classic Heart with Bypass, 2-Part

Ideal for explaining the treatment of coronary heart disease, this model contains all the features of the Classic Heart (A380) above, plus color representations of venal bypasses to the right coronary artery and ramus interventricularis anterior, as well as the ramus circumflexus of the left coronary artery. Displayed on removable stand.
7½×4¾×4¾ inches (19×12×12 cm).
A385

C. Classic Heart with Conducting System, 2-Part

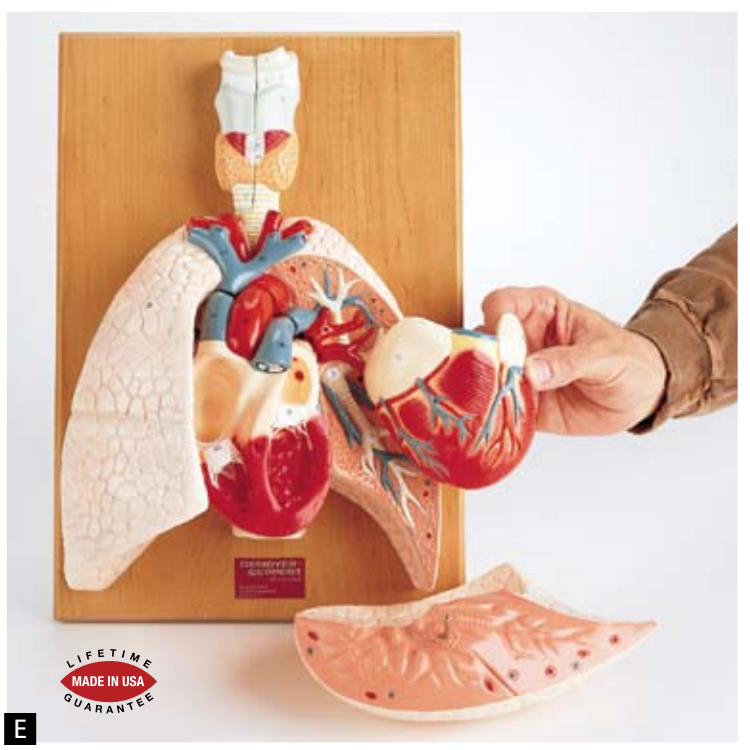
Transparent to illustrate the vessels of the heart, the coronary arteries and veins are presented in colored relief, and the complete conducting system is also represented in color. The front heart wall is removable, and the entire heart can be taken off its stand. 7½×4¾×4¾ inches (19×12×12 cm).
A383

D. Classic Heart Set on Single Wood Base

Includes A380, A383 and A385.
A388

E. Cardiopulmonary System (Heart and Respiratory Organs)

Fully three-dimensional and mounted on a hardwood base, this life-size unbreakable plastic model includes lungs, trachea, heart, esophagus, and complete larynx with vocal cords, all in their natural position. The right half of the larynx can be removed, as well as the heart and half of the left lung, which exposes the bifurcation off the trachea and bronchial tree, the pulmonary arteries and veins. The heart itself splits in halves to show its four chambers and valves, thus providing understanding of the directional blood flow there. Pulmonary circulation can also be easily traced, and with major vessels of the systemic circulation depicted, blood flow through the entire body can be demonstrated. 58 numbered structures are identified in the corresponding key. Overall dimensions: 17×11×6 inches (43×28×15 cm).
A42



E

Cardio

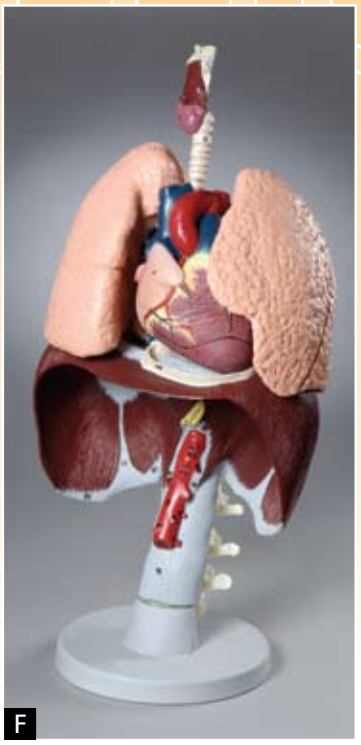
Heart

opulmonary

F. Respiratory Organs

This unbreakable life-size model is distinctively colored to illustrate anatomical detail. Clearly shown are: the diaphragm, the aorta with the origins of five abdominal arteries, three thoracic and lumbar vertebrae, a sectioned left lung, a sectioned larynx, and a heart that can be bisected. On stand with key card. 16×9×7½ inches (41×23×19 cm).

A649


F

G. Lung model with Larynx, 7-Part

This colorful replica includes the following removable parts: two-part larynx • trachea with bronchial tree • two-part heart • subclavian artery and vein • vena cava • aorta • pulmonary artery • esophagus • two-part lung (front halves removable) • diaphragm. 13½×16¼×4¾ inches (34×41×12 cm).

A315

G

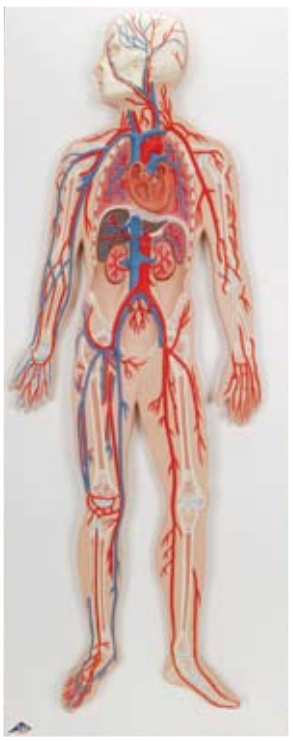
H. Human Circulatory model facilitates understanding of the Blood Vascular System

Scaled to one-half life size, this colorful semi-schematic relief model lets you easily trace the circulation of blood from the right side of the heart to the lungs and back to the left side and thence to the head, limbs and vital organs.

Vessels carrying deoxygenated blood are color-coded blue; those carrying oxygenated blood are red.

Mounted on a rectangular molded plastic plaque, the model measures 31½×12×2½ inches (80×30×6 cm).

A300

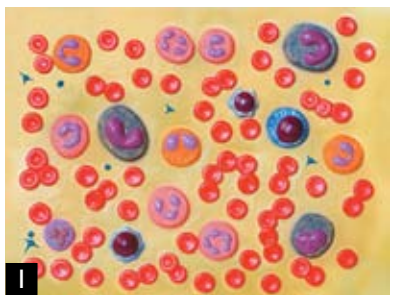

H

I. Human blood cell types

Depicted at a magnification of 2000X, this colorful presentation shows the double concave erythrocytes, platelets and the various types of leucocytes (lymphocytes, monocytes, neutrophils, eosinophils and basophils) — all in full relief.

Mounted on a rectangular plaque-type base, the model measures 21×15×2½ inches (53×38×6.5 cm)

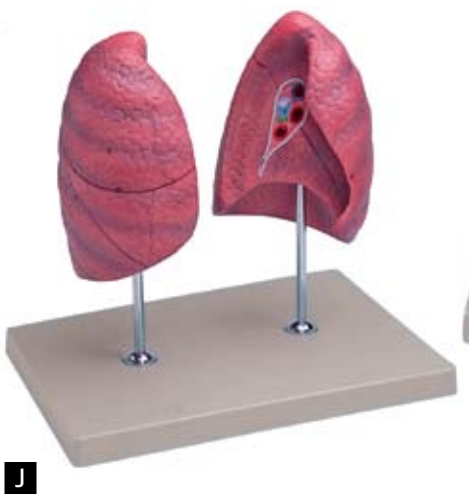
A607-4


I

J. Life Size Human Lungs

Faithfully reproducing all external features of the human left and right lung in life like detail, each lung is mounted on its own pedestal and shares a rectangular base with its counterpart. Overall dimensions: 13x9x12¼ inches (33x23x31 cm).

A612-7


J

K. Human Segmental Lungs

In this life size replication of the left and right lungs, the segmental nature of the lungs is highlighted through the use of color coding to distinguish lung lobes in contrasting colors.

Sharing a rectangular base, each lung is mounted on its own pedestal support. Overall dimensions: 13x9x12¼ inches (33x23x31 cm).

A612-5

SAVE WHEN YOU PURCHASE BOTH MODELS

Human lungs Set

Includes A612-7 Human lungs and A612-5 Segmental lungs.

A612-75

K

L. Budget-priced human thoracic organs, 7-parts

Life size, this model reproduces the human respiratory system including the larynx, trachea, lungs, and diaphragm, plus the heart – all in their natural positions as they would be found in the thoracic cavity.

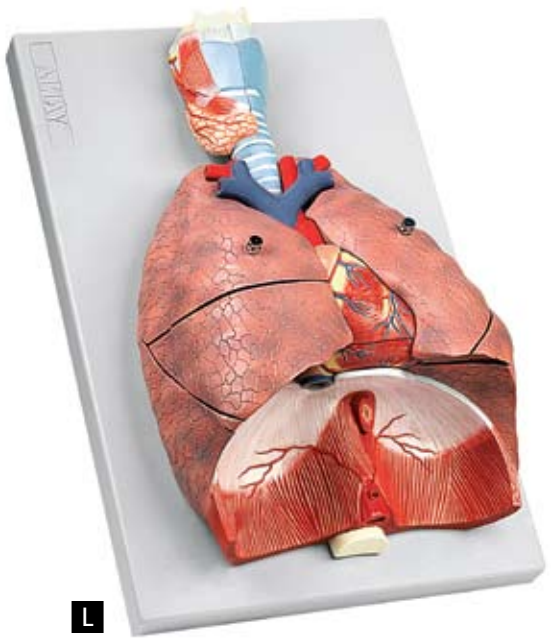
The larynx detaches and splits in two along the median plane exposing the vocal cords within. The right half of the larynx includes muscles and the thyroid.

Both lungs have detachable anterior halves to reveal the ramifications of bronchi and blood vessels.

Removing the heart, uncovers the bifurcation of the trachea. The heart itself dissects in two to disclose its pumping chambers and valves.

Mounted on a rectangular plaque, the model measures 10¾×15¾×4¾ inches overall (26×40×12 cm).

A612-15


L

A. Giant Functional Larynx

4 times life-size and uniquely American-made, this unbreakable replica is complete with hyoid bone and epiglottis. The right side depicts only the cartilaginous structure, while the left shows the musculature as well. Movable vocal cords, arytenoid cartilages and epiglottis all accurately demonstrate their functions. Perfect for speech correction and music, as well as anatomy and physiology, 55 hand-coded features are identified in the accompanying key. Overall dimensions: 15×7×6 inches (38×18×15 cm).

AP48

B. "Dissectible" Human Larynx *divides into 7 parts, twice life-size*

Depicting the human voice box and associated structures, the model includes: larynx • hyoid • upper portion of the trachea • ligaments • muscles • blood vessels • nerves • thyroid.

Dividing medially, the model can be further "dissected" for detailed study by detaching the thyroid cartilage, two muscles, and both halves of the thyroid gland.

A210

C. Budget Human Larynx, 2 times life size, 5-parts

Scaled to twice life size for ease of observation, this model reproduces the human larynx complete with upper portion of trachea, hyoid bone, cartilaginous structure, thyroid, blood vessels and nerves.

Separating into a total of five parts including a mid sagittal section which divides the larynx into right and left halves, key features are numbered and referenced in the accompanying identification key.

Mounted upright on a circular pedestal support, the model measures 7×4½×3 inches overall (18×11×8 cm).

A612-11

D. Human Larynx, functional model 2½ times life size

Scaled to 2½ times life size, this model features movable arytenoids cartilages, vocal cords and epiglottis to demonstrate the functionality of the human larynx. Also depicted are the hyoid bone • cricoid cartilage • thyroid cartilage • one half of the thyroid gland with parathyroid.

The model is mounted upright on a square plastic base, and measures 5½×5½×11 inches (14×14×28 cm).

AP200

E. Deluxe Bronchial Tree with Larynx and Transparent Lungs

Produced using molds created on the basis of computer tomographic (CT) scans of a living, healthy, 40 year old man, this remarkable replica exhibits all the features of our model A423 below,including flexible epiglottis, hyoid, medially-sectioned detachable larynx, trachea, and bronchi of the various lung segments molded in transparent contrasting colors, then incorporates even more realism through the addition of detachable transparent lungs.

This vividly elucidates the three dimensional spatial relationships of respiratory components.

Complete with detachable pedestal base. Overall dimensions: 9×7×15 inches (22×18×37 cm).

A423-1

F. Life-size budget Bronchial Tree

Mounted on pedestal display base, this one-piece plastic model replicates the human bronchial tree, including the trachea, its bifurcation and subsequent branching. Bronchopulmonary segments are color-coded in contrasting colors. Overall dimensions: 4½×4½×10¾ inches (11.5×11.5×27.5 cm).

A612-10

Features 7 detachable parts for detail study

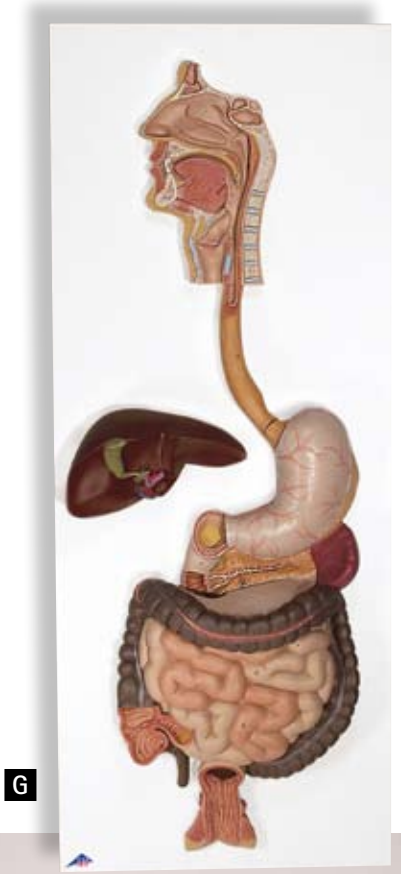
G. Color-coded Bronchial Tree with larynx

Molded from computer tomographic (CT) scans of a living 40 year-old male, this unique replica incorporates the larynx, trachea and the ramifications of the bronchial tree.

The larynx with flexible epiglottis detaches at the level of the second tracheal cartilage, and then bisects along the medical plane. The larynx, trachea, primary and lobar bronchi are depicted in mono color, while the bronchi of the various lung segments are molded of flexible plastic in contrasting transparent colors.

Complete with detachable support base. Overall dimensions: 9×7×15 inches (22×18×37 cm)

A423



F. Life-Size 5-Part Digestive System

This plastic model replicates the entire alimentary tract from mouth to anus, including:

- Detachable lower jaw half, complete with teeth, muscles of mastication and salivary glands.
- Dissected pancreas exposing the pancreatic and common bile ducts.
- Duodenum sectioned open to reveal the hepatopancreatic ampulla and the entrance of the accessory pancreatic duct.
- Dissection of the terminal portion of the ileum and cecum showing the ileocecal valve and the orifice of the vermiform appendix.
- Section through the rectum, anal canal and anus to reveal the anal columns and anal sphincter.

The liver and 2-part stomach also detach to ease in observation. Features are number-coded for identification in the accompanying key, and the model is mounted on a hardwood base. Overall dimensions: 36×11×6 inches (91×28×15 cm).

A93

G. Classic Digestive System, 3-Part

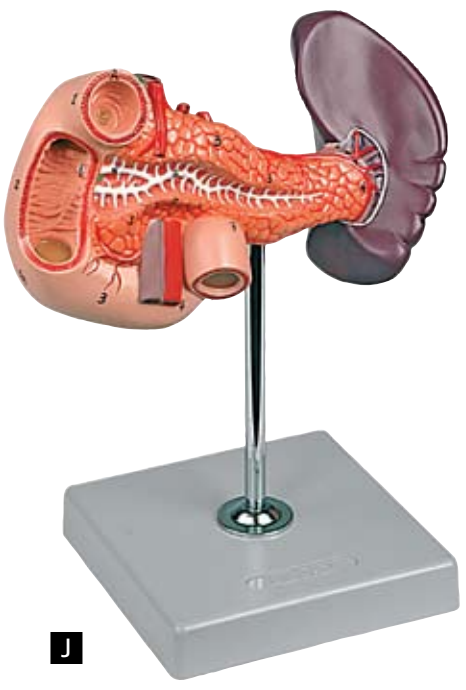
This life-size model demonstrates the path that food takes through the body during the digestive process. The entire digestive system is featured in graphic relief, including: the nose, the mouth cavity and pharynx, the esophagus, the GI tract, the liver with gall bladder, the pancreas, and the spleen. The duodenum, cecum, and rectum are opened, and the liver, stomach, and transverse colon are removable. Mounted on baseboard. 32×13×4 inches (81×33×10 cm).

A321

H. Intestinal Villi

Magnified hundreds of times, three of the more than 5 million villi that line the small intestine are replicated in this model depicting their essential role in digestion and nutrient absorption. One villus is shown intact. Another is sectioned to reveal its network of arterioles and venules. The remaining is sectioned to show its lymphatic vessels. The corresponding key identifies 23 numbered structures. Overall dimensions: 10×16×4 inches (25×41×10 cm).

A52



I. Internal Organs of The Upper Abdomen

Three times life-size, this plastic model replicates the pancreas, duodenum, gallbladder, spleen, and kidneys with adrenals. Dissections of the pancreas, duodenum and gallbladder let you trace the pancreatic, cystic and bile ducts. Major blood vessels including the portal vein are depicted. 59 hand-numbered structures are defined in the accompanying key. Model pivots on hardwood stand. Overall dimensions: 12×15×5 inches (30×38×13 cm).

A56

J. Budget Life Size Pancreas with Duodenum Spleen

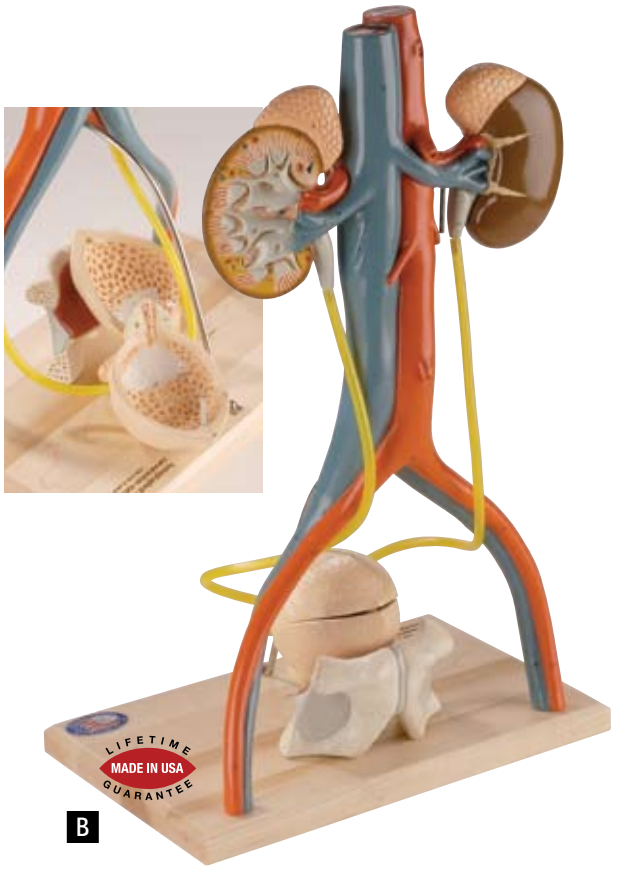
Resting on a pedestal support on which it can pivot, this one-piece replica exhibits the relationship of important abdominal organs.

Included is the pancreas — dissected open to expose the pancreatic duct, vascular supply, spleen, and duodenum — also dissected open to show the entrance of the pancreatic and bile ducts.

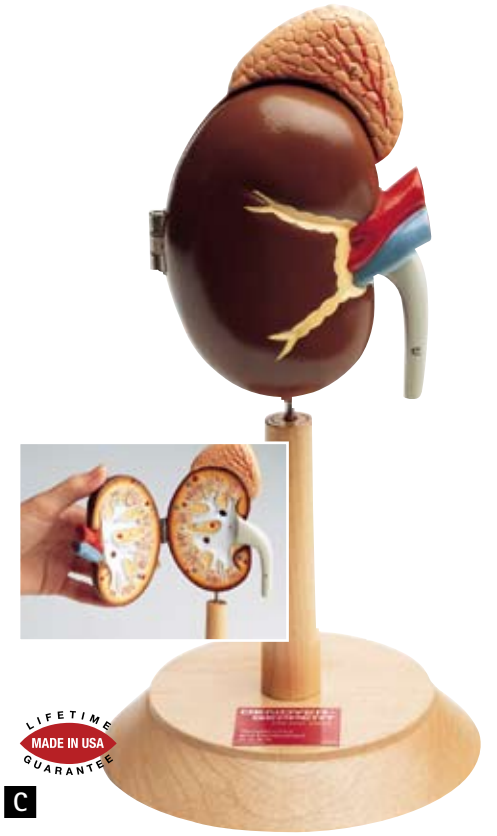
Overall dimensions: 6¼x6x9 inches (16x15x23 cm)

A609-11

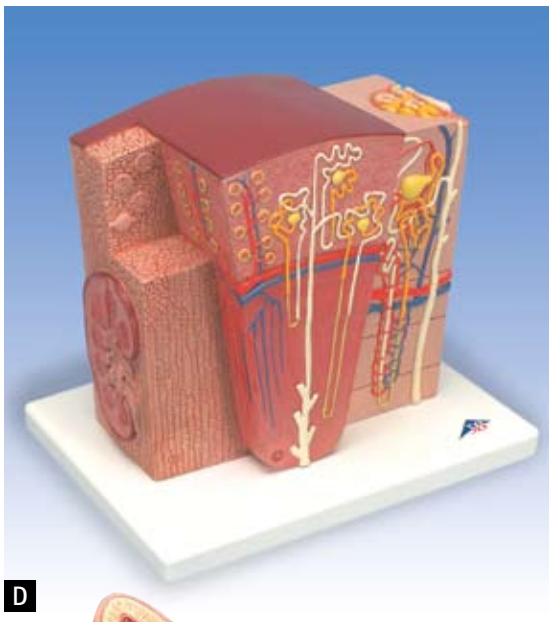
A



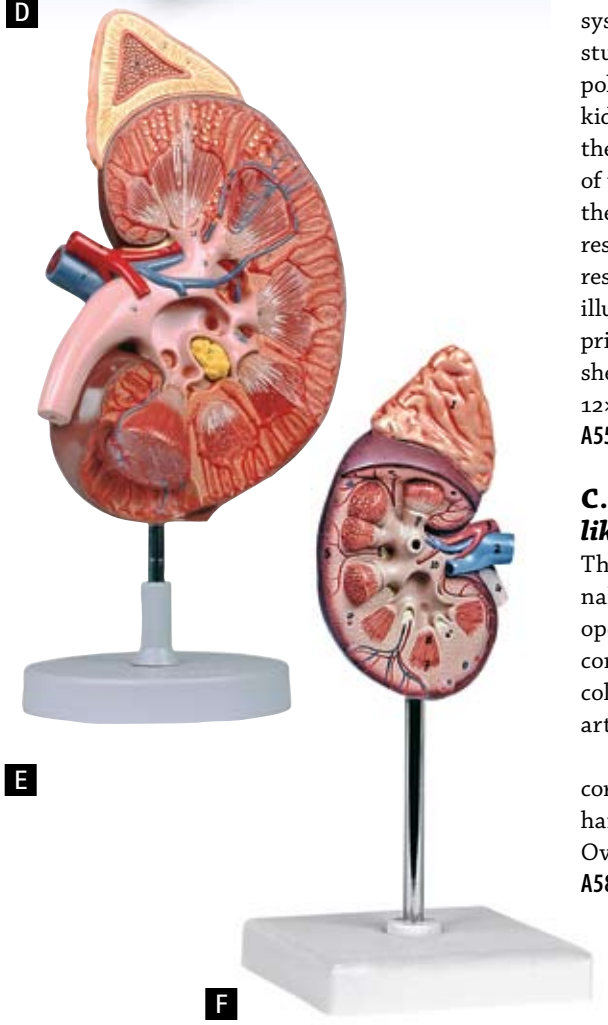
B



C



D



E

F

A. Deluxe Kidney*'s giant size, contrasting colors enhance comprehension*

Three times life-size, this vinyl-plastic model of the left kidney is parasagitally sectioned over three-fourths of its length. Illustrated in deep relief are: the renal artery and vein, a portion of the ureter, cortex, medulla, pyramids, pelvis, major and minor calyces, internal blood supply and drainage. Nephrons are detailed in contrasting colors with the distal and proximal convoluted tubules somewhat simplified for clarity. Several loops of Henle with glomeruli are also detailed in relief. 34 hand-numbered features are identified in the accompanying key. On base. Measurements: 14×8×5 inches (36×20×13 cm).

A57

B. Free-Standing Urinary System

This three-dimensional model of the male urinary system and its blood supply is freestanding, enabling study from all aspects. Made of unbreakable vinyl polymer, the larger than life replica illustrates: 1) the kidneys, adrenals and blood vessels • 2) a section of the pelvic bones with pubic symphysis, lower portion of the bladder and prostate • 3) the upper portion of the bladder and prostate. Flexible plastic tubing represents the ureters. 50 hand-numbered features correspond with those on the accompanying reproducible illustrated black line copy master. Identification key is printed on the flip side — lets you produce study/quiz sheets with or without answers. Overall dimensions: 12×19×8 inches (30×48×20 cm).

A55

C. Right Kidney and Adrenal Gland *opens like a book*

The vinyl-plastic reproduction, complete with adrenal gland and proximal portion of the ureter, swings open to expose its internal anatomy, including: the cortex, medulla, major and minor calyces, renal columns, pelvis and the ramifications of the renal artery and vein.

Features are hand-numbered and identified in a corresponding key. Hinged kidney fully rotates on hardwood base or can be removed for hands-on study. Overall dimensions: 5×5×11 inches (13×13×28 cm).

A58

D. MICROanatomy™ Kidney

This highly detailed model is greatly magnified to show the morphologic/functional units of the kidney. Containing six model zones, the following fine tissue structures, which serve in urine production, are featured: longitudinal section of a kidney • section of renal cortex and renal medulla • wedge-shaped kidney lobe section containing three nephrons with Henle's loops of different lengths and vascular supply • nephron with a short Henle's loop, along with vascular supply • opened renal corpuscle with nephron, along with transverse sections of the proximal, attenuated, and distal segments of a renal tubule • opened renal corpuscle. Mounted on base. 10×7½×9¼ inches (25.5×19×23.5 cm).

H130

E. Budget Priced Enlarged Kidney *model includes adrenal gland*

Scaled to three times life-size, this hand-painted model depicts a frontally-sectioned human kidney exposing its structural details.

Clearly visible are the cortex, medulla, renal pyramids with papillae – (one pyramid includes a schematic representation of its renal corpuscles and collecting tubules with Henle's loop), renal pelvis, calyces, ureter, renal artery and vein.

Positioned in situ atop the kidney is a suprarenal (adrenal) gland, which has also been frontally sectioned to reveal its cortex and medulla.

The model is supported on a circular pedestal and measures 15¾×6×3 inches (40×15×8 cm)

A614-6

F. Budget Student Version Kidney *with adrenal gland is perfect for hands on investigations*

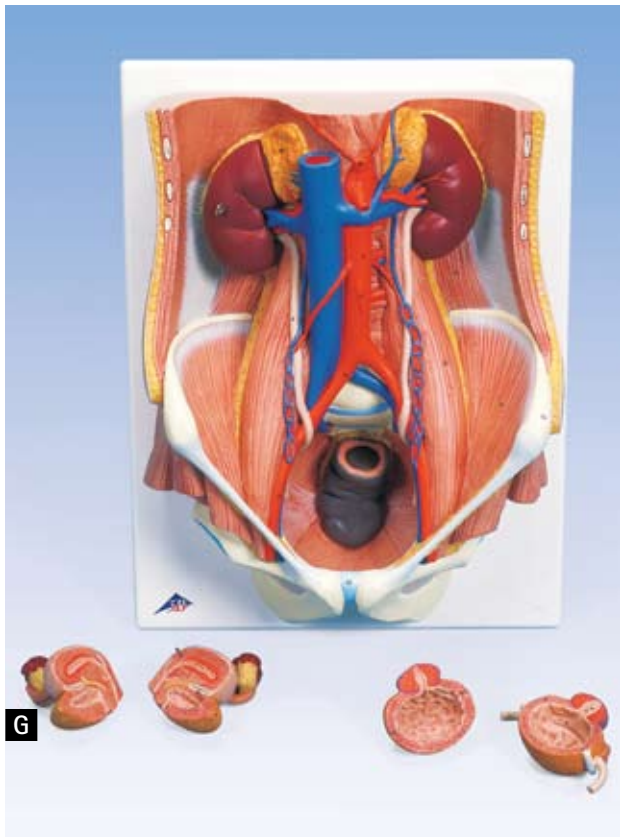
Two-parts, 1½ times life-size

Ideally suited for students working in small teams, this larger than life replica of the human kidney, complete with attached adrenal, "dissects" in two to display key internal structural details including cortex, medulla, calyces, renal pelvis, ureter and blood vessels.

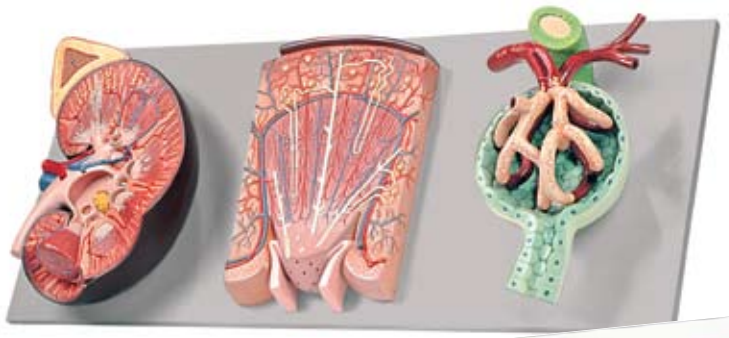
And it's so attractively priced, you'll want to place one at every lab station.

Mounted on a square pedestal support, the model measures 9¾×4×4 inches (25×10×10 cm)

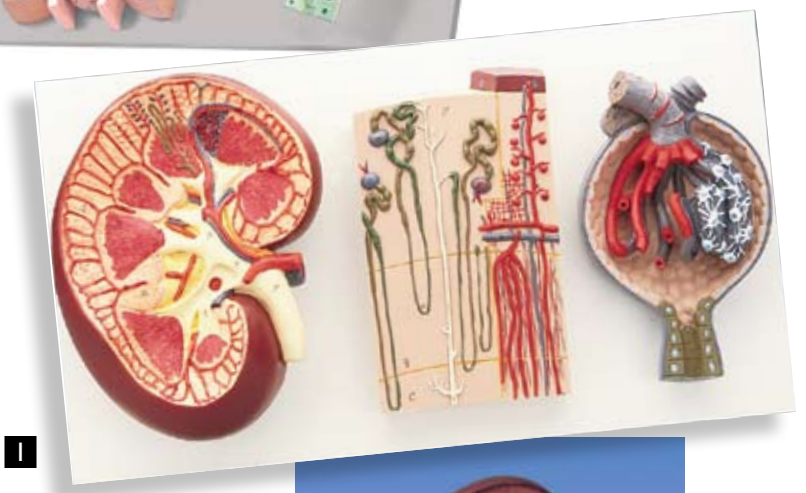
A614-11



G



H



I

G. Male and Female Urinary System, 6-Part

Provided with interchangeable male and female pelvic inserts, this model shows the urinary system and its surrounding structures including adrenals, major vessels, pelvic bones and muscles, in full relief.

The detachable 2-part male insert depicts the bladder and prostate which have been sectioned frontally, while the 2-piece female counterpart includes the bladder, ovaries and uterus sectioned laterally. Also detachable is the anterior half of the right kidney.

Mounted on a rectangular molded plastic plaque, the model measures 16×12×6 inches (41×31×15 cm).

A532

H. Budget Kidney, Nephron And Glomerulus

Sharing a single plaque-type base, three models illustrate kidney anatomy and detail its filtration mechanism.

The first model shows a frontally-sectioned kidney and adrenal 3 times life-size to clearly depict its cortex, medulla, pyramids, renal pelvis and blood vessels.

Magnified 120 times, the second model in the series shows a nephron with its network of renal tubules and Henles' loop.

A single glomerulus magnified 700 times is depicted in the third model showing Bowman's capsule, afferent and efferent vessels.

Overall dimensions: 29×11½×4¾ inches (70×29×12 cm)

A614-14

I. Kidney, Nephron and Glomerulus

Three vinyl-plastic models on a single base consist of:

- The right kidney scaled to three times life-size and sectioned open.
- A wedge of the kidney magnified approximately 120 times to show two nephrons with glomeruli and tubules.
- A single glomerulus magnified approximately 700 diameters showing Bowman's capsule, afferent and efferent arterioles and capillaries.

Dimensions: 20×11×4 inches (52×29×9 cm).

A53

J. Kidney Stone Model

Designed to educate patients about kidney stones and urinary stones, this life-size, opened right kidney includes the renal calices, renal pelvis, and ureter, which are also opened to facilitate viewing of stones in the following areas: the renal pyramids • the origin of the upper calyx group • the renal cortex • the connecting tubule of the lower calyx group • and the ureter. The base of the model contains four color illustrations of various kidney stones. 5½×4×6½ inches (14×10×16.5 cm).

H290

K. Kidneys with Rear Organs of Upper Abdomen, 3-Part

This life-size, comprehensive model displays the upper abdominal organs in their natural positions and removable from the kidneys. Presenting the kidneys with the suprarenal glands, outgoing ureters, renal vessels, and large vessels, the right kidney's front half is removable to show the renal pelvis, renal calices, renal cortex, and renal medulla.

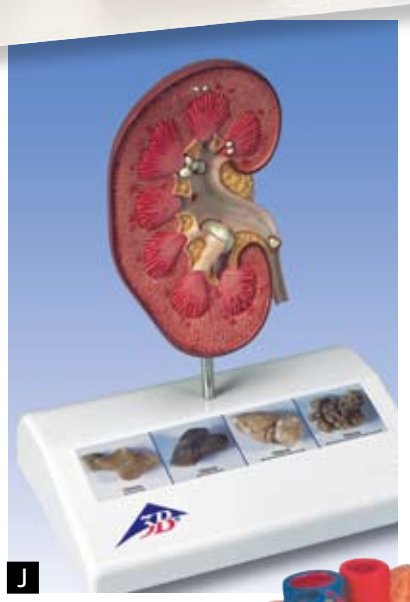
The rear organs include: the partially opened duodenum, the gall bladder and opened bile ducts, the pancreas revealing large ducts, the spleen, and the surrounding vessels. Displayed on stand. 9½×7×11½ inches (24×18×29 cm).

A223

L. Kidneys with Vessels, 2-Part

This life-size model incorporates the kidneys with the suprarenal glands, outgoing ureters, renal vessels, and large vessels. The front half of the right kidney is removable to allow viewing of the renal pelvis, renal calices, renal cortex, and renal medulla. Displayed on stand. 8¼×7×11 inches (21×18×28 cm).

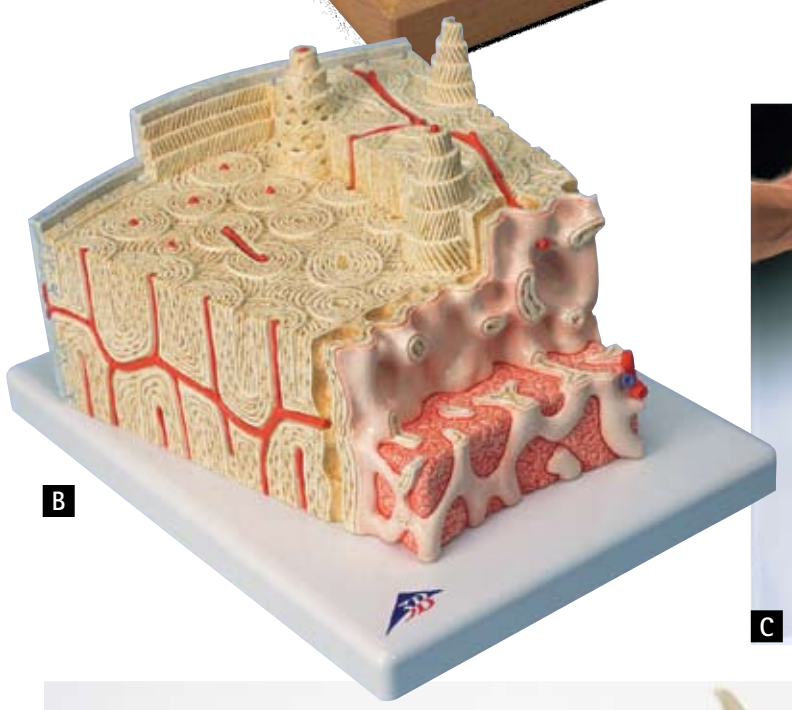
A221



J

K

L



A. Bone Structure Model

Depicting a fragment of compact bone about the size of a pinhead magnified approximately 500 times, this hand-painted model shows one complete haversian system and a portion of two others in cross-section. Lamellae are cut away at various depths in step-wise fashion. 6×6×7 inches overall (15×15×18 cm). Mounted on a hardwood base and supplied with an identification key.

A92

B. Bone Structure Model

Magnified 80 times, this three-dimensional section of the lamellar bone shows the typical structure of a tubular bone. The model illustrates various planes in cross and longitudinal sections through all levels of the bone, and also contains a two-plane section through the inner structure of the bone marrow. The typical elements of the lamellar bones are easy to identify and aid in understanding the structure and function of the Haversion systems.

The individual bone components, including spongy and compact substance, endosteum, cortical substance, osteocytes, Volkmann, and Haversian canals, are all displayed. Supplied with base. 10¼×7½×5¾ inches (26×19×14.5 cm).

H379

C. Giant Three-Root Molar

Our largest tooth model, molded of unbreakable plastic, portrays a molar from the upper jaw 15 times normal size for ease of study.

Divide the molar longitudinally to expose its interior from crown to root. Next, remove the pulp from one half of the tooth. Then extract a section of the crown from the other half. Finally, insert any of the three additional interchangeable sections exhibiting advancing stages of caries.

Principal structures, hand-numbered on the model, are identified in the accompanying key.

The tooth pivots on a hardwood base, and measure 7×7×3 inches (18×18×33 cm).

A87

D. Teeth and Jaw Development 4-Part Series

Four life-size unbreakable plastic models, mounted on a single hardwood base, trace the development of human jaws and teeth from birth through adulthood.

Each model depicts the right half of the maxilla and mandible cut open to expose the roots of the teeth and developing teeth within the jaws. Color-coded to identify deciduous, successional and superadded permanent teeth, this series includes jaws of a newborn, a 5-year old, a 9-year old and an adult.

Overall dimensions: 9×18×4 inches (23×46×10 cm).

A88

E. Dentition Development

Cast from natural specimens, this model includes four upper and lower jaw halves representing four different stages of development, including a newborn, a 5-year old child, a 9-year old child, and a young adult. 13×4×8 inches (33×10×20cm).

A220

FREE GIFTS when you order — see back cover. No Surprises!

F. Dental Morphology 7-Part Series

Ten times life-size, six teeth representative of every human tooth type are included in this series: 1) Lateral Incisor, 2) Canine (cuspid); 3) First Premolar (bicuspid) with advanced caries; 4) Second Premolar; 5) Detachable bridge, consisting of first Molar with gold crown; 6) Second Molar.

Since it is nearly identical morphologically to the lateral incisor, the central incisor is not included, nor is the third molar, which is so similar to the second. Each tooth has its name hand-lettered on its surface, and is removable from the transparent base. 22 hand-coded features are identified in the accompanying key. 22×10×8 inches (56×25×20 cm) overall.

A84

Lateral Incisor Only

The lateral incisor, which separates into halves to show internal features, may also be purchased individually with its own key.

10×3½×2½ inches (25×9×65 cm).

A85

G. Giant Hands-On Child's Jaw and Adult's Jaw

These two models, offered as a set for the first time, trace tooth development from childhood through adulthood.

Magnified 3½ times natural size, the Child's Jaw dramatizes progressive stages in tooth succession in the lower jaw of an eleven-year old. Four extractable teeth, each typifying a distinct tooth type, are portrayed.

A cutaway of the jawbone exposes the roots of the teeth, as well as the nerves and blood vessels that supply them. Developing permanent teeth are shown below the gum line, and one molar is sectioned from crown to root, allowing the enamel, dentin and pulp to be viewed. 21 hand-numbered features are identified in its corresponding guide.

The Adult Jaw, approximately the same size and scale as the Child's Jaw, shows the full adult complement of teeth. Three teeth are split open from crown to root: the first a healthy tooth, the second with advancing decay, and the third with extensive decay and disease. 31 features are numbered and identified in its accompanying key.

Each jaw model measures approximately 14×5×9 inches overall (36×13×23 cm).

U90

H. Lower Jaw of Preadolescent with Removeable Teeth

The lower left jaw of an eleven-year-old depicts deciduous teeth being replaced by permanent teeth. Made of unbreakable plastic, the model has been scaled to 3½ times life-size to enhance difficult-to-observe details.

The outer portion of the jaw bone has been cut away, exposing the roots of the teeth, their nerves, and blood vessels.

Four teeth can be extracted from the jaw; an incisor, a premolar, a molar, and a developing canine.

One molar has caries. Another is sectioned longitudinally, revealing its enamel, dentine, cementum and pulp.

Thirty-one hand-numbered structures are identified in the accompanying key.

Overall dimensions: 14×9×4 inches (36×23×10 cm).

A86

I. Mandible of Young Adult

The left mandible of a postadolescent with its full complement of eight teeth, approximately three times life-size, is faithfully rendered in unbreakable plastic.

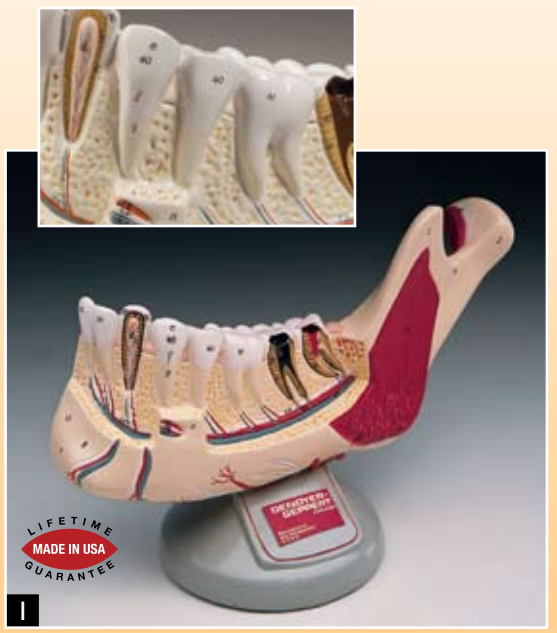
The bony outer layer of the jaw is cut away, exposing the mandibular blood vessels, roots of the teeth, and their nerves.

Sectioned longitudinally from crown to root, one molar shows the destructive action of caries, while another exhibits advanced inflammation (pulpitis).

The inner surface of the jaw shows the submaxillary and sublingual salivary glands.

Forty-eight numbered features are defined in the accompanying key. Overall dimensions: 13×14×9 inches (33×36×23 cm).

A83



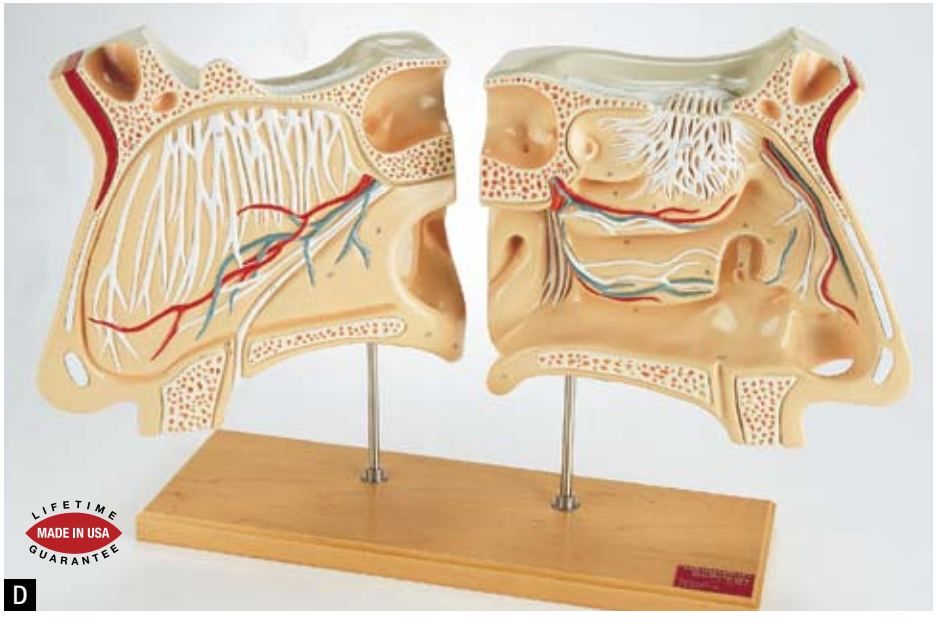
Special Senses Models

A

B

C

— the Lord god formed man out of the clay of the ground and blew into his nostrils the breath of life, and so man became a living being.
— Genesis 2:7 NAB



D

A. Student Version Giant Eyeball *at a budget price*

6 times life-size with five detachable parts including the upper hemisphere, the iris/cornea unit, the Lucite Lens that magnifies and inverts images, the transparent vitreous body, and the retina. The eyeball disassembles and reassembles with ease, so students can effectively learn through hands-on activity. A 2-page study guide highlighting its 19 principal features is included.

Overall dimensions: 6×6×6 inches (15×15×15 cm).

U82

B. Giant Student Version Ear *encourages hands-on investigation*

Without sacrificing size or key detail this three-part replica exposes the entire length of the ear canal and Eustachian tube so that the sound waves entering the ear can be easily traced and to demonstrate how air pressure on both sides of the eardrum is equalized. The hammer, anvil, transparent ear drum, and the labyrinth all lift out for hands-on study. Functions of the 18 hand-numbered primary features are explained in depth in the accompanying study guide. Overall dimensions: 16×11×7 inches (41×28 x18 cm).

U83

C. MICROanatomy™ Eye

This two-part model illustrates the microscopic structure of the retina with choroids and sclera. The left side shows the retina's complete structure, including the supplying vascular layer and parts of the sclera from a light microscopic view. The model's right side is even more enlarged, and contains a section of the microscopic structure of the photoreceptors and the cells of the pigmented layer.

10×9×7¼ inches (25×23×18.5 cm) overall.

H160

D. Nose and Olfactory Organ Set

Two unbreakable plastic models on one hardwood base depict the nose and nasal passages enlarged to 4 times their normal size. The model on the right shows the nasal septum, its arteries and veins, the inner group of olfactory nerve filaments, nasopalatine nerve, soft and hard palate, uvula and the cranial floor. The model on the left depicts the left nostril, olfactory nerve, bulb and filaments, sphenopalatine ganglion, communicating sinuses, arteries and veins, the pharyngeal orifice of the Eustachian tube and the nasal conchae. The turbinate bone and nasolacrimal canal are also presented. 32 numbered features are identified in the accompanying key. Overall dimensions: 18×4×14 inches (48×10×36 cm).

A95

Senses

E. Human Skin Series — Plus Burn Pathologies

Three-dimensional and magnified 75 times, this series is really six models in one. The front face of the model compares and contrasts normal healthy skin from three different body regions:

- the palm or sole (totally hairless)
- the axilla or armpit (sparsely endowed with hair)
- the scalp (completely hirsute)

The epidermis, dermis, and hypodermis, as well as the glands, hair follicles, nerves and receptors are all sculpted in full relief with contrasting colors. 46 features are identified in the accompanying key.

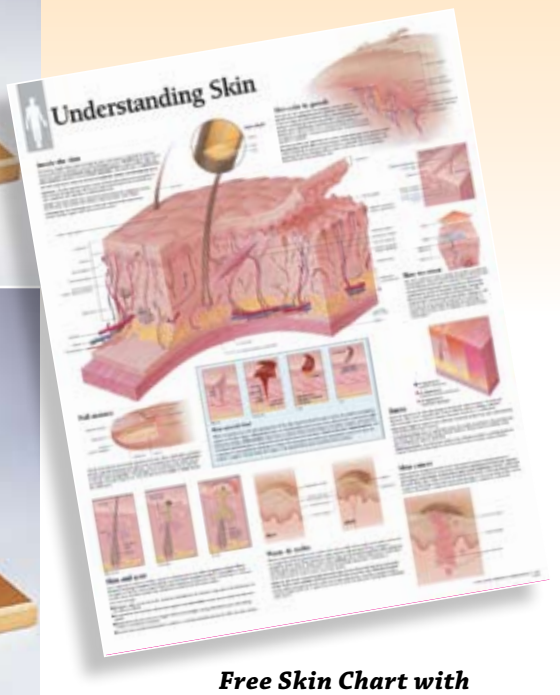
The back face shows the progressive severity of injury caused by burns — from the reddening and transitory damage of the first degree burn, to the blistering, often permanent damage of the second degree burn, to the deep charring and permanent tissue destruction of the third degree burn. Burn segments are fully labeled on model.

Measuring 16×3×10 inches LWH (41×8×25 cm), the model is mounted on a 6×18 inch (15×46 cm) hardwood base.

FREE Chart Bonus

Our Skin Chart is yours free when you purchase the A942 Human Skin Series — Plus Burn Pathologies Model. Measuring 20×26 inches (51×66 cm), it provides illustrations and descriptions, acting as the perfect mate to our Human Skin Series Model.

A942



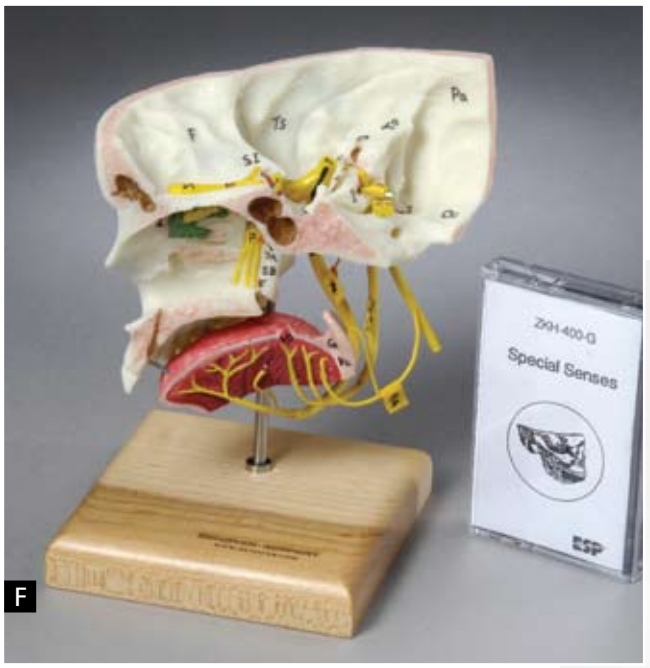
Free Skin Chart with this model

F. Special Senses Model with Audio Cassette

The five senses and their related nerves are illustrated within a life-size sectioned skull, along with a flexible trigeminal nerve that permits exposure to the underlying petrosal nerve. The tongue is also sectioned, and the eye is removable.

All component nerves are identified and a key card is included, as well as an 18-minute lecture on audio cassette. 19×15×15cm.

AS400



G. Human Sinuses Model

4 times life-size, in hand-painted vinyl, this is the only model that exposes all the human sinuses. Perfect as a surgical trainer, key anatomical landmarks such as the internal carotid artery and optic nerve are portrayed. The middle turbinate is detachable, exposing the partially dissected unciate, infundibulum, and ethmoid bulla. The bulla has been perforated to demonstrate the endoscopic pathway to the ethmoid cells, and for patient education, the physician can quickly demonstrate the surgical procedure, thus alleviating preoperative patient anxiety. The model pivots on a hardwood base and measures: 14×12×4 inches (36×30×11 cm).

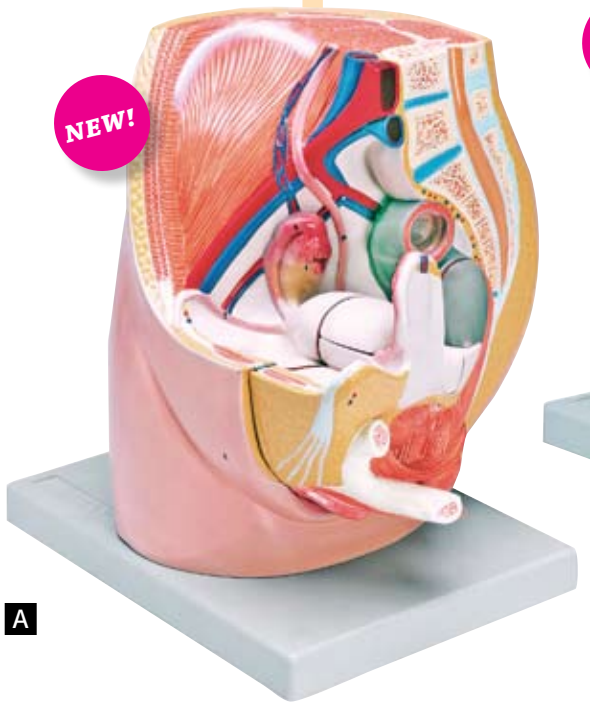
A96

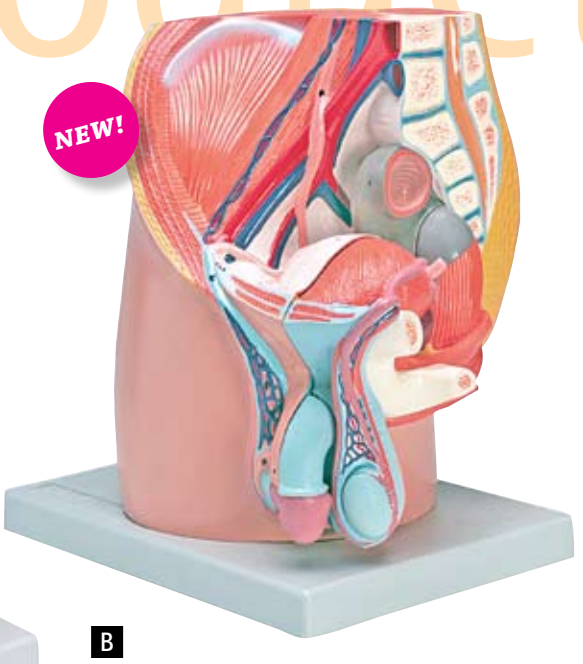
H. Mini Skin, Hair & Nail

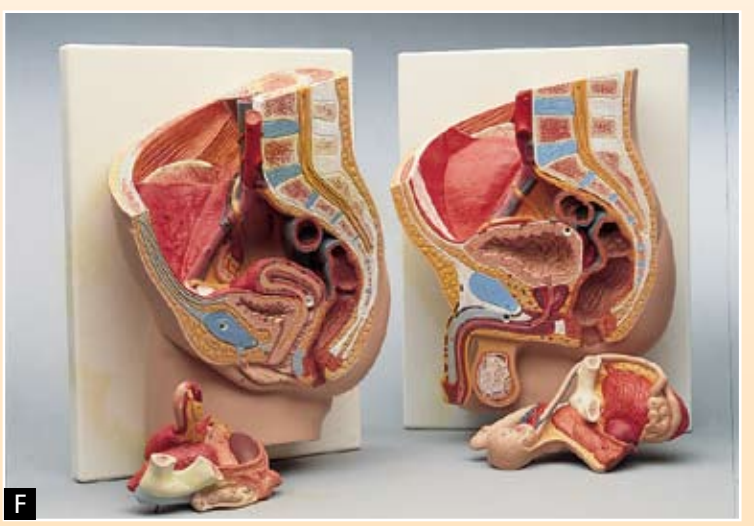
This model represents the skin's microscopic structure in precise detail, and also includes supplementary models of the hair and nail. Containing a section of both the hairless and hairy skin, the cell layers, embedded sweat glands, touch receptors, blood vessels, nerves, and hair with root are all depicted. A separate hair root with all its cell layers is also included. Lastly, a nail section shows the nail plate, nail bed, and nail root. 4×5×5½ inches (10×12.5×14 cm).

H314

Reproductive







A. *NEW!* 3-part female pelvic anatomy

This life-size counterpart to our male pelvic anatomy model A318-4, incorporates the entire female urogenital system and our open dissection of the right half of the pelvic region.

Divided along the median, the left half of the female reproductive organs along with surrounding structures including the ovary, fallopian tube with fimbria, uterus, vagina, urinary bladder, urethra, rectum and pubic symphysis remove as a unit. The uterus further divides providing medial and transverse sectional views.

Mounted on a rectangular base, the female pelvis model measures 9¾×7×10½ inches overall (25×18×27 cm).

A618-3

B. 4-part male pelvic anatomy

Life-size and "dissecting" into four parts, the model encompasses the right half of the pelvic region along with the entire male urogenital system.

Divided along the median plane, the left half of the genitalia and surrounding structures including the pubic symphysis, prostate with ejaculatory duct, urinary bladder, and rectum detach as a unit.

The scrotal wall on the left side has been partially cutaway to expose the testis, spermatic card and vascular network.

Sectioned medially and transversely, the left half of the penis detaches to reveal the urethra, corpus spongiosum and the erectile chambers of the corpus cavernosum.

Supported on a rectangular base, the pelvic model measures 9¾×7×10½ inches overall (25×18×27 cm).

A618-4

C. Male Reproductive Organs – 4 Parts

Includes bisected male genitalia, urinary bladder and prostate. Model rests on wire support stand with hardwood base. 5×3 ½×4 ½ inches (12.75×9×11.5cm)

T73

D. Female Reproductive Organs – 5 Parts

Includes medially sectioned internal reproductive structures, urinary bladder, and external genitalia. A mammary gland is also included. Model rests on wire support stand with hardwood base. 3 ½×5 ½×4 inches (9×14×10.15cm)

T74

E. Prostate Model, 1/2 life-size

Painted in great detail, this cross section of the male genital organs presents a healthy prostate with bladder, testicle, urethra, symphysis, and rectum. The base of the model contains an additional four cross sectional depictions of the narrowing of the urethra due to a change of the prostate.

5¼×4×5½ inches (13.5×10×14 cm).

H410

F Male and Female Pelvic Sections

Each of these life-size replicas presents a median section through the adult pelvic region depicting the pubic symphysis, vertebrae, spinal cord, colon and rectum. Included in their entirety, half the urinary bladder and reproductive organs detach as a unit permitting detailed study of their internal anatomy. Each model measures 12×16×8 inches (31×41×19 cm) overall.

308-11 Male Pelvic Section
302-10 Female Pelvic Section

G. *NEW!* Human Embryonic Development Series

12 early stages from fertilization through the 2nd month

Recreating the critical early cleavage, tissue differentiation and embryo-forming steps in human ontogeny, this highly magnified 12-part series illuminates the following key developmental stages:

• Zygote immediately following fertilization • Bicellular stage • 4-cell stage • 7-cell stage • Marula • Blastocyst with trophoblast and embryoblast (7th day) • Blastocyst at the onset of the formation of the 3 germ layers • Blastocyst at the onset of uterine implantation (beginning of 2nd week) • Embryo at the 12th day • Embryo at the 20th day • Embryo at the 28th day • Embryo in the 2nd month (amniotic sac very pronounced)

The first 8 models are scaled to approximately 4000 times life size, share a common display base, and detach individually for close scrutiny. Each of the four later stages is approximately 4 to 5 times life size and has its own base.

Overall measurements 5x23x16 inches (12x59x41 cm)

HE39

G

I. Female Reproductive System in 1st Trimester of Pregnancy with Removable 12-Week Embryo — 3 Parts

Includes bisected reproductive structures with external genitalia. Model rests on wire support stand on hardwood base. 4¾×5½×5½ inches (12×14×14 cm).

T77

I

J. Female Reproductive System in 3rd Trimester of Pregnancy — 4 Parts

Includes a two-part uterus and reproductive structures, along with a removable seven-month fetus, and detached placenta. Model rests on detachable hardwood base. 5×6½×12 inches (12.75×16.5×30.5 cm).

T78

J

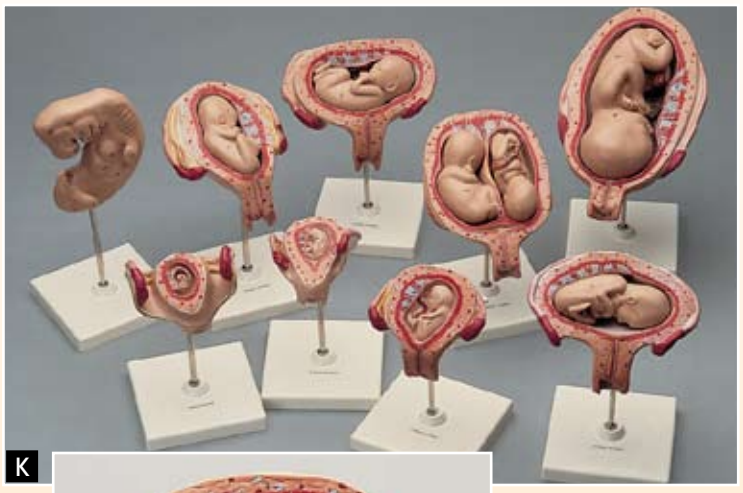
K. 9-Stage Human Pregnancy Series

details human development from 4th week through 7th month

Encompassing a four-week embryo depicted 25 times life-size, plus eight life-size models of the pregnant uterus illustrating key developmental stages and fetal positions, including twinning — each of the five later stages permits the fetus to be lifted from the uterus for detailed examination.

Mounted on individual pedestal bases, the models range in size from 5×5×7 inches (12×12 x19 cm) to 6×13×11 inches (15×32×27 cm).

304-11



K

Life-size models bring embryo and fetal development to life

L. 5-Stage Human Pregnancy Series

Representative developmental stages selected from our 9-Stage Series 304-11, share a single base. Stages included are: 1st month • 2nd month • 3rd month • 5th month • 7th month. The 5th and 7th month stages have detachable fetuses. Overall dimensions: 5×16×13 inches (13×41×33 cm).

304-11/9

K

L

FREE GIFTS with your purchase
the more you spend, the more choices you get
— *It's as easy as A, B, C!*

Here's How:

When your order totals between $400 and $699—
RECEIVE ONE FREE GIFT from Tier A.

When your order tallies between $700 and $1599 —
RECEIVE TWO FREE GIFTS: one from Tier A and choose one from Tier B.

And when your order tops $1,600 —
RECEIVE THREE FREE GIFTS: one from Tier A and choose one each from Tiers B and C.

$400–$699

A

USB FLASH DRIVE
Take those important files with you, wherever you go. Style may vary from picture shown.

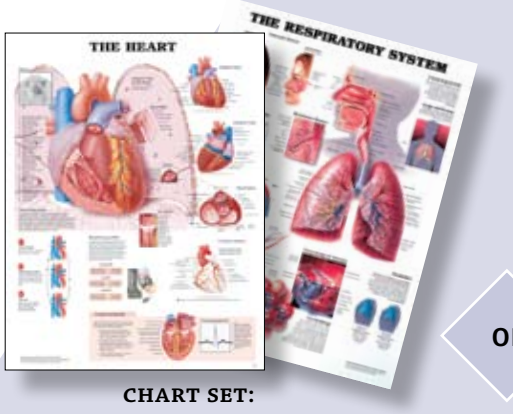


CHART SET:
ANATOMY OF THE HEART,
THE RESPIRATORY SYSTEM
2823-08P & 2766-08P (pg. 124-125)

or

BUDGET STUDENT VERSION
KIDNEY
A614-11 (pg. 100)

$700–$1599

B

BUDGET KNEE
LIGAMENT MODEL
AJ418 (pg. 52)

or

LIFE-SIZE, 2-PART BRAIN
AB70 (pg. 83)

or

BUDGET SHOULDER
LIGAMENT MODEL
AJ413 (pg. 50)

$1600 +

C

Denoyer-Geppert Science Co.
P.O. Box 1727
Skokie, IL 60076-8727
Phone: (800) 621-1014 Fax: (866) 531-1221
www.denoyer.com